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REPORTS OF COMMITTEES

OF THE

SENATE OF THE UNITED STATES

FOR THE

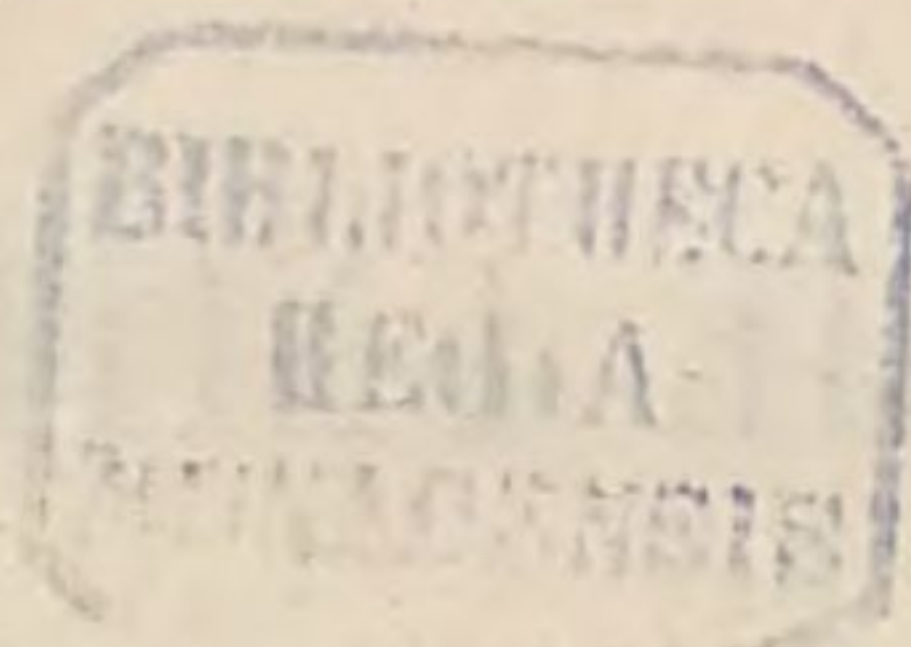
SECOND SESSION OF THE FIFTY-SECOND CONGRESS AND
THE SPECIAL SESSION CONVENED MARCH 4, 1893.

1892-'93.

IN THREE VOLUMES.

Volume 1.—Nos. 1117 to 1285, inclusive.
Volume 2.—Nos. 1286 to 1393, inclusive, and Nos. 1 to 9
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OF THE
SENATE OF THE UNITED STATES
FOR THE
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AND
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WHOLESALE PRICES, WAGES,
AND
TRANSPORTATION.

REPORT

BY

MR. ALDRICH,

FROM THE

COMMITTEE ON FINANCE,

MARCH 3, 1893.

PART I.

THIS VOLUME EMBODIES IN A CONDENSED FORM EVERYTHING
CONTAINED IN VOLUMES 2, 3, AND 4.

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1893.

FIFTY-SECOND CONGRESS.

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BENJAMIN DUFFEE, *Clerk.*

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IN THE SENATE OF THE UNITED STATES.

REPORT ON WHOLESALE PRICES, ON WAGES, AND ON
TRANSPORTATION.

MARCH 3, 1893.—Ordered to be printed.

Mr. ALDRICH, from the Committee on Finance, submitted the following

PARTIAL REPORT:

[In response to Senate resolution of March 3, 1891.]

WHOLESALE PRICES AND WAGES.

The Committee on Finance, acting under instructions of the Senate contained in the annexed resolution of March 3, 1891, beg leave to submit the following report upon wholesale prices and wages:

Resolved, That the Committee on Finance be, and they are hereby, authorized and directed, by sub-committee or otherwise, to ascertain in every practicable way, and to report from time to time to the Senate, the effect of the tariff laws upon the imports and exports, the growth, development, production, and prices of agricultural and manufactured articles, at home and abroad; and upon wages, domestic and foreign; and for this purpose they are authorized to sit by subcommittee or otherwise, during the recess and sessions of the Senate, at such times and places as they may deem advisable, and to employ a stenographer and such clerical and other assistance as may be necessary; the expense of such investigation to be paid from the contingent fund of the Senate.

In their report on retail prices and wages (No. 986, Fifty-second Congress) your committee alluded to the fact that they were engaged in the preparation of a comprehensive report on wholesale prices and wages for the fifty-two years from 1840 to 1891, inclusive. The results of this investigation are herewith submitted.

Having in view the importance and the magnitude of this work the committee have been solicitous that every precaution should be taken to secure the greatest possible degree of accuracy. The necessity of elaborate preliminary preparation and careful oversight at every step have delayed the presentation of results. The tables and statements submitted furnish a body of statistics, upon these important subjects, more comprehensive and satisfactory, it is believed, than any heretofore collected.

The purpose of the committee, as stated in their previous report, was to ascertain, through accurate and adequate statistics of prices and wages, the changes which have taken place in the condition, as shown by the relative purchasing power of their earnings, of the great mass of people in the country for the half century which has just closed. The character and extent of these changes are fully disclosed in the

tables and explanatory text which make up the report. The committee will not attempt, in this partial report, to point out the effect which legislation may have had from time to time in producing these changes, but merely presents a statement of the facts collected by methods and through agencies which had the unanimous approval of the members of the committee, and about the accuracy of which there can be no question. Any attempt to trace the results shown by the report to their original causes would undoubtedly lead to a divergence of opinion among the members of the committee and possibly add nothing to the economic value of the investigation.

The tables annexed to the report contain statistics upon the following subjects of inquiry:

PRICES.

(1) The course of wholesale prices of from two to three hundred articles in common use in distinctive markets for the years 1840 to 1891. (Tables XI and XXI.)

(2) The wholesale prices of agricultural products in New York, Chicago, and Cincinnati, for the same period. (Table X.)

(3) The wholesale prices of the articles included in Table XI for October, 1891, and October, 1892. (Table XXII.)

WAGES.

The statistics of the course of wages and earnings include—

(1) The rate of wages in nearly one hundred distinct establishments, covering twenty-two industries, for the period of 1840 to 1891. (Table XII.)

(2) Special investigations into the rates of wages and earnings in the coal, iron, glass, and pottery industries, 1840 to 1891. (Table XIII.)

(3) The salaries of teachers during the same period. (Table XIV.)

(4) Rates of wages in July, 1891, and October, 1892. (Table XXIII.)

The work of collecting statistics of general prices and wages was intrusted to the Hon. Carroll D. Wright, Commissioner of Labor, who, in his report to the committee (Appendix B), explains the extent and nature of the work performed under his supervision.

The prices of agricultural products were collected under the supervision of the Hon. J. R. Dodge, statistician of the Department of Agriculture. His report (Appendix C) explains the method of collecting the figures.

In the collection of price statistics the committee was aided by the following gentlemen, to whom the special branches of inquiry indicated were entrusted:

Mr. Henry Bower, secretary of the Manufacturing Chemists' Association of the United States, Philadelphia, Pa., drugs and chemicals.

Mr. S. N. D. North, secretary of the National Association of Wool Manufacturers, Boston, Mass., wool and woollens.

Messrs. Mauger & Avery, of Boston, Mass., on wool.

Mr. Edward Stanwood, secretary of the Arkwright Club, Boston, Mass., cotton textiles.

Mr. Joshua Reece, jr., New York, N. Y., textiles.

Among the appendices to the report will be found statements from these gentlemen in relation to their services.

The committee are also indebted to the following gentlemen and firms for data furnished on the subjects indicated:

Screws, Edwin G. Angell, president of the American Screw Company, Providence R. I. Shoes, Isaac H. Bailey, Boston, Mass. Car-

pets, Roxbury Carpet Company, Roxbury, Mass., Bigelow Carpet Company, Clinton, Mass., A. T. Lyman, treasurer Lowell Manufacturing Company, Lowell, Mass. Pocket knives, Thos. W. Bradley, president New York Knife Company, Walden, N. Y. Fish, Fred. F. Donimick, secretary Boston Fish Bureau, Boston, Mass. Butts, H. N. Fenner, treasurer New England Butt Company. Anvils, Clark Fisher, Trenton, N.J. Meats and provisions, Hitchcock, Darling & Company, New York, N. Y. Plate glass, E. A. Hitchcock, president Crystal Plate Glass Company, St. Louis, Mo. Table cutlery, C. S. Landers, Landers, Frary & Clark, New Britain, Conn. Groceries and provisions, Isaac Locke, Boston, Mass., S. P. Hibbard, Boston, Mass. Earthenware, John Moses and Joseph Willets, Trenton, N. J. Files, W. T. Nicholson, president Nicholson File Company, Providence, R. I. Rope, Plymouth Cordage Company, Plymouth, Mass. Hides and leather, Thomas E. Proctor, Boston, Mass. Table glassware, D. C. Ripley, president United States Glass Company, Pittsburgh, Pa. Iron and steel, James M. Swank, Philadelphia, Pa. Wire, Chas. F. Washburn, vice-president Washburn and Moen Manufacturing Company, Worcester, Mass. Nickel, Joseph Wharton, Camden, N. J. Hardware, J. M. Woodruff, treasurer Russell and Erwin Manufacturing Company, New York, N. Y.

The special investigations concerning the wages in the coal, iron, glass, and pottery industries were entrusted to Mr. Joseph D. Weeks, of Pittsburg, Pa., and the statistics in regard to teachers' salaries were secured through Hon. William T. Harris, Commissioner of Education (Appendix D).

In the selection of articles for quotation the committee frequently consulted the representatives of leading industries. As regards the statistical preparation of their work they enjoyed the advice of leading statisticians, to whom they are indebted for useful suggestions in making their work effective.

The figures contained in the various tables have been subjected to elaborate analyses by the statistician of the committee, Dr. Roland P. Falkner, Professor of Statistics in the Wharton School of Finance and Economy, University of Pennsylvania. His report (Appendix A) contains a more detailed statement of results than can be given here, and a discussion of the methods which have been employed in the analyses.

RESULTS OF THE INVESTIGATION.

It became evident at an early stage of the investigation that the prices of but a comparatively small number of articles could be traced back to the year 1840. The committee therefore indicated to their agents that prices should be obtained for as early a period as possible, and that in all cases they should go back at least to the year 1860. For reasons set forth at length by the statistician the year 1860 was chosen as the point of comparison, the prices of other years being compared with those of 1860 as the standard.

The same conditions existed in regard to wages. It was impossible to secure satisfactory figures, except in a limited number of cases, for the year 1840 and the years immediately following. In the analysis of wage rates, therefore, as well as in prices, the year 1860 is taken as the standard, and throughout all the comparisons which are made in the report reference is made to that year, unless it is specifically stated otherwise.

PRICES.

In dealing with the specific results of the investigation we will consider the situation of prices in the final years of investigation, 1891, and the course of prices throughout the years covered by the tables. In this report we are unable to give more than a statement of general results, and must refer to the appendices for the figures relating to individual articles. Compared with the standard year 1860, the relative price of 223 articles in 1891 in the various groups is shown by the following table:

Relative prices, 1891 compared with 1860, by groups.

Group.	1	2	3
	Number of articles.	Sum of relative prices.	Division of 2 by 1.
Food	53	5,507.1	103.9
Cloths and clothing	28	2,269.4	81.1
Fuel and lighting	10	910.0	91.0
Metals and implements	54	4,043.5	74.9
Lumber and building materials	35	4,279.3	122.3
Drugs and chemicals	18	1,553.8	86.3
House-furnishing goods	15	1,051.8	70.1
Miscellaneous	10	950.9	95.1
Total	223	20,565.8	92.2

From the foregoing it appears that in 1891 prices were 7.8 per cent lower than in 1860.

There are 85 articles whose prices are given in 1840, and if we make a similar comparison for these articles, taking 1840 as the standard year, we have the following table:

Relative prices, 1891 compared with 1840, by groups.

Groups.	1	2	3
	Number of articles.	Sum of relative prices.	Division of 2 by 1.
Food	30	3,285.4	109.5
Cloths and clothing	9	720.6	80.1
Fuel and lighting	1	19.5	19.5
Metals and implements	12	953.2	79.4
Lumber and building materials	15	1,779.2	118.6
Drugs and chemicals	15	1,183.7	78.9
House-furnishing goods	2	192.2	96.1
Miscellaneous	1	50.0	50.0
Total	85	8,183.8	96.3

The decline in prices is not so marked in this as in the former comparison.

No attempt has been made in either of the foregoing comparisons to assign to any of the articles included in the list a significance proportionate to its importance in daily life. Each article is accounted absolutely equal. As it was desired to ascertain the influence of changes in price upon the standard of living of the average citizen of the United States, an exhaustive examination was made of the proportions in which the articles of consumption enter into the budgets of families. Details relating to this investigation are to be found in our report upon retail prices and wages. If we give to the relative price of each group its importance in the total, according to this method, we have

the following table for 1891, 1860 being the standard and indicated by 100 in all cases:

Relative prices of all articles, 1891, measured by consumption.

Group.	Importance.	Index.	Result.
Rent.....	1,506	100.0	1,506,000
Food.....	4,103	103.7	4,254,811
Fuel.....	500	98.1	490,500
Lighting.....	90	48.1	43,290
Clothing.....	1,531	75.1	1,162,029
All other purposes.....	2,270	95.3	2,164,069
Total.....	10,000	96.2	9,620,726

In this table we have been obliged to consider that certain items of expenditure, not affected by changes in price of the articles in question, have remained stationary throughout the period. If this be so, then the foregoing table gives a correct statement that the cost of living in 1891 is between 4 and 5 per cent less than in 1860. If, however, we apply our price figures simply to that portion of the family expenditure which is affected by their changes, and leave rent, etc., out of consideration, we find that the relative price in 1891 for 68.6 per cent of the total family expenditure is 94.4.

THE COURSE OF PRICES.

The following table gives a statement of relative prices throughout the period covered by the investigation. Three different methods of combination are given in this table and the prices are in currency:

Relative prices in each year, 1840-1891, for all articles grouped by different methods.

Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.	Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840.....	116.8	98.5	97.7	1866.....	191.0	160.2	187.7
1841.....	115.8	98.7	98.1	1867.....	172.2	145.2	165.8
1842.....	107.8	93.2	90.1	1868.....	160.5	150.7	173.9
1843.....	101.5	89.3	81.3	1869.....	153.5	135.9	152.3
1844.....	101.9	89.8	85.0	1870.....	142.3	130.4	144.4
1845.....	102.8	92.1	88.2	1871.....	136.0	124.8	136.1
1846.....	106.4	96.7	95.2	1872.....	138.8	122.2	132.4
1847.....	106.5	96.7	95.2	1873.....	137.5	119.9	129.0
1848.....	101.4	92.0	88.3	1874.....	133.0	120.5	129.9
1849.....	98.7	88.9	83.5	1875.....	127.6	119.8	128.9
1850.....	102.3	92.6	89.2	1876.....	118.2	115.5	122.6
1851.....	105.9	99.1	98.6	1877.....	110.9	109.4	113.6
1852.....	102.7	98.5	97.9	1878.....	101.3	103.1	104.6
1853.....	109.1	103.4	105.0	1879.....	96.6	96.6	95.0
1854.....	112.9	103.4	105.0	1880.....	106.9	103.4	104.9
1855.....	113.1	106.3	109.2	1881.....	105.7	105.8	108.4
1856.....	113.2	108.5	112.3	1882.....	108.5	106.3	109.1
1857.....	112.5	109.6	114.0	1883.....	106.0	104.5	106.6
1858.....	101.8	109.1	113.2	1884.....	99.4	101.8	102.6
1859.....	100.2	102.0	102.9	1885.....	93.0	95.4	93.3
1860.....	100.0	100.0	100.0	1886.....	91.9	95.5	93.4
1861.....	100.6	95.9	94.1	1887.....	92.6	96.2	94.5
1862.....	117.8	102.8	104.1	1888.....	94.2	97.4	96.2
1863.....	148.6	122.1	132.2	1889.....	94.2	99.0	98.5
1864.....	190.5	149.4	172.1	1890.....	92.3	95.7	93.7
1865.....	216.8	190.7	232.2	1891.....	92.2	96.2	94.4

A convenient summary of the foregoing table, by periods of five years, is found in the following:

Relative prices, by five-year periods, 1840-1891, for all articles grouped by different methods.

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840-'44.....	108.8	93.9	91.0
1845-'49.....	103.2	93.3	90.1
1850-'54.....	106.6	99.4	99.1
1855-'59.....	108.2	107.1	110.3
1860-'64.....	131.5	114.0	120.5
1865-'69.....	178.8	156.5	182.4
1870-'74.....	137.5	123.6	134.4
1875-'79.....	110.9	108.9	112.9
1880-'84.....	105.3	104.4	106.3
1885-'89.....	93.2	96.7	95.2
1890-'91.....	92.3	96.0	94.1

In these tables the influence of currency depreciation in the period from 1861 to 1878 is clearly seen. The disturbing factor can be eliminated, partially at least, by a reduction to the gold basis. The table here given is a repetition of the preceding, with the exception that the period from 1861 to 1878 is reduced to a gold basis.

Relative prices, in gold, by five-year periods, 1840-1891, for all articles grouped by different methods

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840-'44.....	108.8	93.9	91.0
1845-'49.....	103.2	93.3	90.1
1850-'54.....	106.6	99.4	99.1
1855-'59.....	108.2	107.1	110.3
1860-'64.....	108.1	95.3	99.5
1865-'69.....	118.7	103.9	120.5
1870-'74.....	121.8	109.4	118.9
1875-'79.....	103.8	102.0	105.7
1880-'84.....	105.3	104.4	106.3
1885-'89.....	93.2	96.7	95.2
1890-'91.....	92.3	96.0	94.1

From a consideration of the foregoing it is noticeable that measured in currency the highest range of prices is found in the period from 1865 to 1869; but that measured in gold, the maximum is found in the succeeding period of five years. Attention is also called to the fact that in the two years, 1890 and 1891, prices are lower than in any previous period since 1850. In the decade from 1840 to 1849 the low price of food rendered the cost of living somewhat less than it is at present.

PRICES OF AGRICULTURAL PRODUCTS.

In the analysis agricultural products have been treated separately. For fifteen products prices have been obtained. The list includes the great staple products of American agriculture, and the summary gives a fair picture of the relative prices of these products.

In 1891 the relative price as a whole stood at 97.1, being a fall of about 3 per cent since 1860. The course of prices throughout the period from 1860 to the present time is shown in the following table, where the prices from 1861 to 1878 are expressed in gold:

Average prices of agricultural products in gold, 1860-1891.

Year.	Simple average of 15 products (from Table 33).	Weighted average of 9 products (from Table 35).	Year.	Simple average of 15 products (from Table 33).	Weighted average of 9 products (from Table 35).
1860	100.0	100.0	1876	102.0	91.9
1861	91.7	104.2	1877	104.2	96.5
1862	128.5	172.4	1878	97.0	89.7
1863	121.7	170.3	1879	98.4	91.1
1864	167.1	243.7	1880	109.9	102.9
1865	90.0	97.3	1881	121.1	117.1
1866	122.6	132.5	1882	114.4	120.3
1867	127.3	135.1	1883	100.3	102.0
1868	124.8	129.3	1884	104.7	100.8
1869	119.8	120.9	1885	93.9	87.9
1870	121.1	107.7	1886	96.5	87.5
1871	117.8	115.3	1887	94.9	89.6
1872	118.4	113.9	1888	95.7	93.6
1873	117.7	106.0	1889	91.3	86.5
1874	123.4	123.5	1890	97.4	93.7
1875	112.1	116.8	1891	97.1	98.4

Since 1885 prices have been uniformly lower than in 1860. At the same time it will be observed that the fall is not so marked as in the price of commodities in general. Tables contained in the body of the report show that prior to 1860 prices were noticeably lower than they are at the present time. The number of articles for which prices in that period are given is too small to justify the formation of an average. Therefore, reference must be made to the individual products.

WAGES.

The relative standard of life at the different periods can, of course, be obtained only from a combination of prices with average earnings or wages. The investigation into wages conducted under the supervision of Mr. Wright presents a vast amount of valuable material covering a very wide range of occupations in a number of industries. No other investigation has been made with so wide a scope, such variety of detail, and covering so extensive a period. The committee therefore call special attention to the results of this most important inquiry.

As with prices, we may consider the final results, as well as the course of wages, during the period covered by the investigation. In 1891 wages, as compared with 1860, were as follows:

Relative wages in 1891, compared with 1860 by industries.

Industry.	Number of quotations.	Relative wages.
Agricultural implements.....	5	137.9
Ale, beer, and porter.....	5	224.7
Books and newspapers.....	21	148.6
Building trades.....	39	172.5
Carriages and wagons.....	4	202.4
City public works.....	23	164.6
Cotton goods.....	131	165.1
Dry goods (stores).....	3	183.6
Ginghams.....	30	152.7
Groceries (stores).....	2	194.7
Illuminating gas.....	22	167.7
Leather.....	16	137.6
Lumber.....	5	177.9
Metals and metallic goods.....	130	148.6
Paper.....	7	182.3
Railroads.....	11	146.4
Sidewalks.....	4	187.5
Spice.....	5	164.2
Stone.....	19	165.2
White lead.....	3	140.6
Woollen goods.....	58	167.8
Total.....	543	160.7

Here, as elsewhere throughout the report, the year 1860 is the standard of comparison. As compared with 1860 the average wages in the year 1840 were 87.7. Hence, should we make the year 1840 the starting point of our investigation, the wages of 1891 would stand at 183.2.

Each quotation in these comparisons has been given equal force in ascertaining the results; but should we take as a measure of the importance of each industry the relative number of persons who are employed in it, we should find that the average wages of 1891 stood at 168.6 as compared with 1860, and at 204.4 as compared with 1840.

The advance in daily wages which is here noted has been accompanied by a decrease in the hours of labor. In 1840 the average hours of labor for the occupations included in the table were 11.4 per day. In 1860 they were 11 per day, and in 1891 ten hours per day. Thus it is clear that on the basis of an hourly rate the relative wages of 1891 would stand higher than the figures we have quoted. Compared with 1840 hourly wages in 1891 stood at 209.0, and compared with 1860 at 176.8.

THE COURSE OF WAGES.

The course of wages throughout the period covered by the investigation is shown in the following table:

Relative wages in all occupations, 1840 to 1891, grouped by different methods.

Year.	Simple average.	Average according to importance.	Year.	Simple average.	Average according to importance.
1840.....	87.7	82.5	1866.....	152.4	155.6
1841.....	88.0	79.9	1867.....	157.6	164.0
1842.....	87.1	84.1	1868.....	159.2	164.9
1843.....	86.6	83.0	1869.....	162.0	167.4
1844.....	86.5	83.2	1870.....	162.2	167.1
1845.....	86.8	85.7	1871.....	163.6	166.4
1846.....	89.3	89.1	1872.....	166.0	167.1
1847.....	90.8	91.3	1873.....	167.1	166.1
1848.....	91.4	91.6	1874.....	161.5	162.5
1849.....	92.5	90.5	1875.....	158.4	158.0
1850.....	92.7	90.9	1876.....	152.5	151.4
1851.....	90.4	91.1	1877.....	144.9	143.8
1852.....	90.8	91.8	1878.....	142.5	140.9
1853.....	91.8	93.2	1879.....	139.9	139.4
1854.....	95.8	95.8	1880.....	141.5	143.0
1855.....	98.0	97.5	1881.....	146.5	150.7
1856.....	99.2	98.0	1882.....	149.9	152.9
1857.....	99.9	99.2	1883.....	152.7	159.2
1858.....	98.5	97.9	1884.....	152.7	155.1
1859.....	99.1	99.7	1885.....	150.7	155.9
1860.....	100.0	100.0	1886.....	150.9	155.8
1861.....	100.8	100.7	1887.....	153.7	156.6
1862.....	102.9	103.7	1888.....	155.4	157.9
1863.....	110.5	118.8	1889.....	156.7	162.9
1864.....	125.6	134.0	1890.....	158.9	168.2
1865.....	143.1	148.6	1891.....	160.7	168.6

A summary of the table by five-year periods is given in the following table:

Relative wages in all occupations by five-year periods, grouped by different methods.

Period.	Simple average.	Average according to importance.	Period.	Simple average.	Average according to importance.
1840-'44.....	87.2	82.5	1870-'74.....	164.1	165.8
1845-'49.....	90.2	89.6	1875-'79.....	147.6	146.7
1850-'54.....	92.3	92.6	1880-'84.....	148.7	152.2
1855-'59.....	98.9	98.5	1885-'89.....	153.5	157.8
1860-'64.....	108.0	111.4	1890-'91 (2 years).....	159.8	168.4
1865-'69.....	154.9	160.1			

Wages equally with prices felt the disturbing influence of variable currency during the period from 1861 to 1878, and in order to furnish a basis of comparison with prior and subsequent years, we reduce in the following table the relative wages for the years 1861 to 1878 to the gold basis:

Relative wages in gold in all occupations, 1840-'91, grouped by different methods.

Year.	Simple average.	Average according to importance.	Year.	Simple average.	Average according to importance.
1840.....	87.7	82.5	1866.....	108.8	111.1
1841.....	88.0	79.9	1867.....	117.1	121.8
1842.....	87.1	84.1	1868.....	114.9	119.1
1843.....	86.6	83.0	1869.....	119.5	123.5
1844.....	86.5	83.2	1870.....	133.7	136.9
1845.....	86.8	85.7	1871.....	147.8	150.3
1846.....	89.3	89.1	1872.....	152.2	153.2
1847.....	90.8	91.3	1873.....	148.3	147.4
1848.....	91.4	91.6	1874.....	145.0	145.9
1849.....	92.5	90.5	1875.....	140.8	140.4
1850.....	92.7	90.9	1876.....	135.2	134.2
1851.....	90.4	91.1	1877.....	136.4	135.4
1852.....	90.8	91.8	1878.....	140.5	139.0
1853.....	91.8	93.2	1879.....	139.9	139.4
1854.....	95.8	95.8	1880.....	141.5	143.0
1855.....	98.0	97.5	1881.....	146.5	150.7
1856.....	99.2	98.0	1882.....	149.9	152.9
1857.....	99.9	99.2	1883.....	152.7	159.2
1858.....	98.5	97.9	1884.....	152.7	155.1
1859.....	99.1	99.7	1885.....	150.7	155.9
1860.....	100.0	100.0	1886.....	150.9	155.8
1861.....	100.8	100.7	1887.....	153.7	156.6
1862.....	100.4	101.2	1888.....	155.4	157.9
1863.....	76.2	81.9	1889.....	156.7	162.9
1864.....	80.8	86.2	1890.....	158.9	168.2
1865.....	66.2	68.7	1891.....	160.7	168.6

From a consideration of the foregoing table it becomes evident that there was a gradual advance in wages from 1840 to 1860. Since that date the advance has been less regular but more rapid. The period from 1875 to 1880 was marked by a standstill, but since that time the advance has been continuous.

These conclusions are confirmed by the supplementary investigations embodied in the report. An exact agreement between the results of Mr. Weeks's investigation and the general tables could not have been expected in view of the restricted scope of the former.

It may be considered a substantial agreement that the average of the individual quotations in Table XIII gives 156.5 as the relative wages of 1891, while the same method of averaging the larger table, XII, gives 160.7. To present as complete a picture as possible of the movement of wages the committee endeavored to obtain representatives of the salaried classes. After a careful study it was found that the salaries of teachers were best adapted for this purpose. Through the courtesy of the Commissioner of Education some very valuable figures were collected, which are presented in Table XIV. The results of the analysis show that the advance of remuneration in this field has been similar to that of the wage-earning classes. The general average of all quotations for the year 1891 shows salaries to have been 186.3 as compared with 100 in 1860.

PRICES AND WAGES IN 1891 AND 1892.

When it was seen that the publication of the report might be delayed, the committee decided to collect supplementary figures which

should bring the work down to as late a date as possible. To this end the Commissioner of Labor was requested to collect prices and wages to complete the series to October, 1892, for the identical articles and occupations which formed the subject of his previous investigations. (Tables XXII and XXIII.)

From an analysis of these figures it appears that the prices of October, 1891, stood at 91 as compared with 1860, while those of October, 1892, stood at 89.3. As at the final date of our previous table, January, 1891, the relative price of all articles was 92.2, it is clear that there has been a constant fall.

This result is confirmed by calculations giving each article its importance. The respective figures are:

January, 1891	94.4
October, 1891	92.8
October, 1892	91.7

A similar analysis of supplementary wages is made, with the result that in July, 1891, relative wages stood at 161.272, while on the following October they were 161.239, as compared with 1860. There was an advance over the last date of our previous tables, when the relative wages were 160.7, but no substantial change between the two later dates.

FOREIGN PRICES AND WAGES.

The committee felt that it was desirable to obtain, if possible, statistics of prices and wages in European countries for the purpose of making a parallel with the figures for the United States. The committee were unable to undertake any original investigation abroad and were, therefore, confined to an analysis of figures which could be obtained for Europe in official documents or from private sources. We were more successful in obtaining material for European prices than in establishing the desired comparisons. It appears, therefore, that the investigation inaugurated by your committee might advantageously be supplemented by securing statistics in Europe. The statistician of the committee has made an extended analysis of European prices. They differ radically from our statistics, both as to the extent and methods of combination employed.

It is impossible, therefore, to make any satisfactory combinations along the principles adopted by the committee in its work. The guiding principle of that work has been, throughout, the influence of changes in prices upon a standard of living. Hence the figures collected by the committee comprised mainly articles as nearly as possible in the form in which they entered into the consumption of families. European price statistics, having a less extensive range than ours and comprising in the main simply primary products, are not valuable for comparisons of the nature instituted by the committee.

Hence if a comparison should be made, it could only be done along the lines of European statistics and especially those of the well-known price quotations of the Economist of London.

From a consideration of the comparisons found in Table 82 of the Report of the Statistician, it appears that the course of prices of twenty-two articles of wholesale commerce which are comprised in them varies but slightly in the United States, England, Hamburg, and France. It is to be regretted that in published statistics relating to Europe no figures concerning wages could be found in any way adequate to a comparison with those presented by the committee. So far as prices and wages in European countries are concerned, the committee has been able to give simply a description of European price stat-

istics, and has been unable to make the comparisons which were deemed desirable.

The tables presented in connection with this report contain certain matters drawn from the records of Government purchases which are merely corroborative of what has already been discussed. The report of the statistician contains a more detailed account of the results of the investigation than can be given here, and especial attention is called to it.

The investigation has been conducted for the Finance Committee by a sub-committee, consisting of Messrs. Aldrich (chairman), Allison, Hiscock, Jones (Nevada), Harris, and Carlisle.

TRANSPORTATION.

In its previous reports, made in compliance with Senate resolution of March 3, 1891, the Committee on Finance has treated exhaustively the course of retail prices and wages from June, 1889, to September, 1891, and of wholesale prices and wages since 1840.

In the prosecution of their work the committee were constantly impressed with the importance of transportation charges as a factor in determining prices, notably those of the great staple products of our agriculture, mines, and manufactures. Without an effort at least to measure this influence, their work would have been incomplete along obvious lines.

An examination of the course of transportation charges no less complete and no less comprehensive than that of prices and wages was therefore determined upon. For the prosecution of this investigation the committee were fortunate in securing the services of Mr. C. C. McCain, auditor of the Interstate Commerce Commission. His long personal experience and his official position enabled him to secure a great quantity of material relating to the subject of railroad rates which might have been inaccessible to others. This material, together with an elaborate study of the results of his investigation, are found in his report to the committee (Appendix K). It is commended to the attentive examination of those who are interested in the problems of transportation.

The committee had, in other portions of their work, covered the period from 1840 to 1891, or as much thereof as possible. It is manifest that by reason of the recent growth of some of the more important branches of freight traffic by rail, many rates could not be traced far into the past. In 1840 railroad transportation was in its infancy. Even in 1860, the year fixed by the committee in their report on wholesale prices as the point of comparison, the transportation industry was confined to narrow limits compared with the enormous expansion which has since taken place.

These considerations, together with the difficulty of obtaining earlier records, rendered it impracticable to pursue the methods of analysis which were followed as respects prices and wages. In only a limited way was it possible to obtain figures for the year 1860, the records having in most cases been destroyed. Hence we are forced to present such material as is available and to describe the general tendency of the facts observed rather than to measure one series against another, as was possible in treating of wages and prices. At the same time it should be noted that what is here presented forms the most complete study of the facts in question of which we have any knowledge. We

believe that nowhere else can such a body of information be found in published form. For the last twenty-five years the figures are exceedingly comprehensive.

The method heretofore pursued by your committee of selecting typical facts, rather than overburdening their reports with a mass of unrelated matter, has been followed in the investigation of freight charges. In choosing the figures to be published care has been taken to give, first, typical distances, and, second, typical freight traffic. It is believed that by this method no branch of the transportation service has been omitted from the investigation.

That the points and commodities selected for the construction of the tables are in effect standard and not accidental is clearly evident from the method by which the rates are determined which is fully described by Mr. McCain in his report. Suffice it to say that rates between New York and Chicago, for instance, are in the strictest sense typical, since through rates on the same lines to other points are fixed percentages of these rates. Moreover the rates between New York and Chicago are the same for several lines of road, the others charging definite proportions of these standard rates. This shows the method of rate-making which facilitates the selection of typical rates.

RESULTS OF THE INVESTIGATION.

In the report of the Auditor of the Interstate Commerce Commission the changes in freight rates are shown under the following headings:

1. West-bound rates, mainly classified rates.
2. East-bound rates, classified rates, and commodity rates.
3. Tonnage rates.
4. Local rates.

In showing west-bound rates the typical rate is, as stated, New York to Chicago. The traffic is of a miscellaneous character and is carried under the rates of the freight classifications. Changes in freight charges have resulted from two causes—changes in rates and changes in classification.

As illustrating the changes in rates we give the average rates for each class, New York to Chicago, for certain years.

[Rates in cents per 100 pounds.]

Year.	Classes.					
	1	2	3	4	5	6 Special.
1862.....	159	127	100	60	.....	.....
1864.....	193	161	121	87	.....	.....
1865.....	215	180	107	93	.....	.....
1867.....	190	162	129	83	.....	.....
1870.....	130	113	90	69	50	.....
1875.....	61	55	46	38	29	.....
1880.....	75	60	50	40	.....	.....
1885.....	56	45	34	27	.....	.....
1890.....	75	65	50	35	30	25

If the year 1867 be considered as 100 in each class we find the relative rates in 1892 to have been:

First class....	39.47	} 1867=100.0.
Second class..	40.12	
Third class...	38.76	
Fourth class..	42.17	

What these changes mean can be seen by the following comparison:

Percentage of traffic in each class.

	1880.	1885.	1890.	1892.
First class.....	26.4	24.8	21.0	19.9
Second class.....	6.7	7.1	6.4	5.4
Third class.....	4.4	4.2	12.3	11.3
Fourth class.....	50.1	29.3	12.7	10.4
Fifth class.....	10.6	34.6	10.0	9.6
Sixth class.....	0.0	0.0	37.6	43.4
Special.....	1.8	0.0	0.0	0.0

It is evident from the foregoing statement that the reduction in class rates is not the only element in the reduction of transportation charges. A very important factor is the change of classification. The number of articles in the lower grade is much greater than in the former classifications. The details of these changes are given in full in the statement of the Auditor. We extract the following statement of classifications in use in the territory covered by Western classification No. 15.

Per cent of articles classified in third class or higher.

1873.....	71.12
1878.....	69.90
1882.....	69.70
1886.....	59.15
1887.....	58.76
1893.....	53.90

Through change in classification many articles have received lower rates without any reduction in the class rates. To demonstrate the combined action of class reductions and classification changes, a series of tables have been prepared, giving the rates and class, at different dates, of a large number of specific articles. Compared with 1867 as 100, the relative rates in 1892 of the following standard articles from New York to Chicago were:

Dry goods.....	39.47	Soap, common:	
Cotton piece goods.....	26.32	L. C. L.....	27.13
Boots and shoes.....	39.47	C. L.....	23.26
Furniture:		Starch:	
L. C. L.....	39.47	L. C. L.....	21.60
C. L.....	34.21	C. L.....	15.43
Stoves:		Tea.....	39.47
L. C. L.....	15.79	Sugar:	
C. L.....	13.16	L. C. L.....	42.17
Coffee:		C. L.....	28.92
L. C. L.....	21.60	Molasses:	
C. L.....	15.43	L. C. L.....	42.17
Rice:		C. L.....	36.14
L. C. L.....	42.17	Lead:	
C. L.....	30.12	L. C. L.....	42.17
Groceries.....	40.12	C. L.....	30.12
Drugs.....	39.47	Nails:	
Crockery and earthenware:		L. C. L.....	36.14
L. C. L.....	21.60	C. L.....	30.12
C. L.....	18.52	Hardware.....	40.12
Bagging:		Agricultural implements:	
L. C. L.....	30.86	L. C. L.....	26.32
C. L.....	21.60	C. L.....	15.79
Leather:		Machinery:	
L. C. L.....	30.86	L. C. L.....	21.60
C. L.....	21.60	C. L.....	21.60
Soap, castile and fancy:		Beer:	
L. C. L.....	27.13	L. C. L.....	38.76
C. L.....	15.43	C. L.....	23.26

The figures here given may be taken as indicative of the changes which have taken place in freight charges on west-bound traffic. An examination of the rates by rail and lake routes and by canal and lake routes reveals exactly the same tendencies.

The east-bound traffic from Chicago to New York is made up of articles carried under the classified rates and others carried under commodity rates. A separate analysis of each confirms the results obtained in the analysis of the west-bound rates.

We would refer also to the copious tables of the report for rates from Chicago to points further west and between Pacific coast points and Eastern cities, all of which show the same tendency to decrease.

RATES PER TON MILE.

Another method of obtaining the same result is to take the familiar standard of the rate per ton mile. For this comparison it has been possible to obtain material at very early dates for some lines. The following table shows a comparison of 1892 with 1860, and in some cases also with 1852.

Name of road.	Cents per ton mile.		
	1852.	1860.	1892.
Fitchburg R. R.	3.12	4.10	.925
New York, New Haven and Hartford R. R.		4.04	1.756
New York Central R. R.		2.05	.700
Lake Shore, Michigan and Southern Rwy.		2.16	.602
Michigan Central		2.18	.687
Cleveland, Cincinnati, Chicago and St. Louis R. R.		2.12	.710
New York, Lake Erie and Western.		1.81	.614
Pennsylvania R. R.		1.96	.647
Pittsburg, Fort Wayne and Chicago R. R.		1.67	.....
Ohio & Mississippi		2.38	.911
Illinois Central		2.04	.908
Chesapeake and Ohio		6.41	a. 525

a 1891.

For the dates named this table gives a very interesting and instructive comparison. It shows a very great reduction in freight rates, which is equally demonstrated for a lesser period by the figures for lines not included in the foregoing statement.

LOCAL RATES.

These rates have also felt the tendency to reduction so strongly marked in recent years in through rates. Owing to the fact that local classifications have governed this class of traffic it has not been practicable in many cases to show the changes of rates for individual articles. They have however been reduced in like manner with through rates through changes in classifications as well as reductions in the rates charged for the classes. In the report of Mr. McCain are numberless instances which afford a proof that the reduction of local rates for the classes has been quite material in the last twenty years.

CONCLUSION.

In every department of freight transportation the reduction of rates is shown very clearly by the report herewith submitted. Rich material for the study of the influence of railway rates is afforded by the report of Mr. McCain, to which especial attention is directed.

This investigation has been conducted for the Finance Committee by a sub-committee consisting of Messrs. Aldrich, chairman, Allison, Hiscock, Jones (Nevada), Harris, and Carlisle.

VIEWS OF THE MINORITY.

APRIL 11, 1893.

This report was submitted by the majority of the sub-committee of the Committee on Finance in the expiring hours of the last session of the Fifty-second Congress, and at the request of the minority of the sub-committee it was withheld from the printer until the minority should find time to carefully examine it; but the minority has found no time that it could devote to a critical examination of the report, and therefore it allows the report to go to print without expression of its views further than to say that no accurate or reliable approximate conclusion as to the movement in prices can be reached by comparing the movement in prices of a few articles at one period with the movement of many and dissimilar articles at another period.

The minority, therefore, reserves the right upon the coming in of the final report to express its views fully as to facts as well as the legitimate and proper conclusions to be drawn from the facts.

ISHAM G. HARRIS.

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APPENDIX A.

REPORT OF THE STATISTICIAN.

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WASHINGTON, D. C., *September 1, 1892.*

Hon. NELSON W. ALDRICH,

Chairman Sub-committee on Tariff:

I have the honor to submit herewith a statement of the work which has been done as the statistician of your committee, embodying the results of that portion of the investigation which relates to prices and wages from 1840 to the present time. The report contains the analysis of tables relating to the following subjects:

Table X. Wholesale prices of farm products for 52 years.

Table XI. Wholesale prices of commodities for 52 years.

Table XII. Rates of wages for 52 years.

Table XIII. Rates of wages for 52 years in the coal, iron, glass, and pottery industries.

Table XIV. Teachers' salaries for 52 years.

The data comprised in these tables have been collected from various sources under the direction of the committee, and the work of collection and verification has been in the hands of various bureaus and individuals who have elsewhere described the methods pursued. The present report is, therefore, confined exclusively to an analysis of the tables.

WHOLESALE PRICES OF COMMODITIES FOR FIFTY-TWO YEARS.

The contents of Table XI constitute one of the most exhaustive examinations which has ever been made into the history of prices. It includes over four hundred articles, covering the prices not only of food products and raw materials, but also of a very large number of manufactured articles for the period of 1840 to 1891, inclusive. While for many articles it was impossible to secure the prices for so early a date as 1840, the investigation must be considered remarkably successful in view of the fact that for as many as 90 articles prices were obtained in 1840, while there are 223 articles covering the period of thirty-two years, from 1860 to the present time. In making the analysis of the figures which are presented in this report no departure has been made from the methods approved by the committee in the analysis of retail prices. On the other hand the conditions of the problem have rendered necessary a somewhat different application of the same general features. In order to form an idea of the course of prices during the period under investigation recourse has been had to a system of percentages showing the rise or fall in price from a given base line which is considered as 100. By this means the comparison of a large number of objects varying greatly in units of measurement as well as in price is rendered comparatively easy.

In reducing the actual prices given to a system of percentages or of relative prices the first point to be taken into consideration was the selection of the base line, or in other words, of the period which should

represent 100 in the system to be adopted. While in many respects it would have been highly desirable to have selected as the basis of the analysis either the year 1840, or the average of the years 1840 to 1845, which constituted the starting point of the investigation, for practical reasons this plan had to be abandoned. A system of relative prices for fifty-two years comprising 90 articles would, it is true, be more comprehensive both as to volume and the period covered than the majority of previous investigations. Yet such a statement would have rendered comparatively useless for purposes of comparison all the articles the quotations for which begin later than 1840. On the 1840 basis it would have been impossible to have carried out the analysis of the figures presented in all the refinements of which they are capable and which were desired by the committee. For this reason it was deemed advisable to select a period which would incorporate in the analysis a larger proportion of the figures which are presented.

After a careful consideration of all the circumstances it was considered that the basis best adapted for the analysis was the price of the year 1860, and in the following analysis that year is the basis of all our comparisons. It is considered as 100 and the prices of prior and subsequent years are expressed as percentages of the same. The year 1860 represents a period in our industrial development midway between the older methods of production that prevailed before the war and those which have come into use since that period. It is also a period of comparatively normal prices. The markets of the country had recovered from the crisis of 1857 and the disturbances of trade caused by the war had not yet taken place. The year 1865, midway between the beginning and end of the investigation, is utterly unadapted to serve as a base by reason of the inflated state of the currency, which caused a wholly abnormal condition of the market. The same is equally true of the average for 1865-1869, inclusive, which is the basis of the celebrated calculations of Mr. Palgrave in the Report of the Commission on the Depression of Trade and Industry. The year 1870 is still too much under the influences of the currency inflation to serve as a basis of comparison, besides being open to the objection that it is too close to the present day to furnish useful comparisons.

While in the investigations of English and European statisticians it has not been customary to take a single year for a basis, but rather the average for a period of years, never exceeding five in number, there were important reasons why, in the analysis here presented, a single year should be taken as a basis of comparison. It was not always practicable to secure for the articles in question the average prices that would have covered the period immediately prior to 1860, while in the following year some prices already manifested the disturbances due the unsettled state of national affairs. The choice of an abnormal year would have been a mistake, but the year 1860 presents all the aspects of a normal year. Its price varies little from that of 1859 or of 1858 on the one hand, and of 1861 on the other. It is, therefore, quite as proper a basis of comparison as would be an average of these four years. No scientific reason has been adduced why an average should be preferable to a single year, except that in an average the abnormal features of individual years tend to disappear. If, however, a single year can be found which presents no features which are to be considered abnormal it is quite as accurate to take this year as a basis as to take a group of years of which this forms a part. These considerations have led us to

the belief that the year 1860 is perfectly adapted to serve as base of the analysis.

The prices presented in Table XI are as a rule actual prices obtained at certain dates, while in a few cases they are average prices for the year. The greatest care was exercised to secure absolutely accurate statements and the books of merchants and manufacturers were ransacked in order to obtain figures worthy of every confidence. It is felt to be a special merit of this investigation that the prices which are presented are, as a rule, actual and not average prices; that they represent the amounts actually paid for the articles in question. With all the caution which has been taken in the collection of figures, therefore, it is evident that the prices are representative of the prices for the years in question, and in making the analysis it has been felt that no advantage could be gained by any system of averaging the prices for the four dates for which they were collected. Our analysis, therefore, proceeds on the basis of the January prices in each year where the prices are quoted by quarters. An exception to this rule is made, of course, for those articles for which the January price is not the distinctive price for the year, as for fresh vegetables and the like. Thus, in the cost of potatoes, October is taken as the typical month, but the exceptions to the rule that January is the basis of the comparison are very few. In a very small number of series where 1860 was missing, but the preceding year given, that year was taken as a base. These instances do not disturb the results.

Our analysis must deal principally with those prices which cover the period from 1860 to 1891, and which are, therefore, susceptible of the comparisons which have been suggested. At the same time an effort will be made to utilize, for purposes of comparison, such series of quotations which cover a less period. We are concerned, in the first instance, with the 223 quotations which cover the entire period from 1860 to 1891, and portions of the period from 1840 to 1891. The results of reducing these prices to a system of relative prices as compared with 1860, are given in Table I.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices.*

FOOD.

Year.	Beans.	Bread.								
		A shipbread.	B shipbread.	Boston crackers.	Boston crackers.	Boston crackers.	Boston crackers, extra grade.	Navy shipbread.	Oyster crackers.	Ship biscuits.
1840.....						70.6	62.5			125.0
1841.....						74.1	61.7			100.5
1842.....						71.8	66.7			112.5
1843.....						70.6	65.8			87.5
1844.....						70.6	66.7			87.5
1845.....		100.0	93.8		70.6	70.6	66.7	92.9	80.0	87.5
1846.....		100.0	93.8		70.6	70.6	66.7	92.9	80.0	112.5
1847.....		131.3	125.0		70.6	70.6	66.7	121.4	80.0	100.0
1848.....		108.3	112.5		70.6	70.6	66.7	95.2	80.0	100.0
1849.....		106.3	100.0		70.6	70.6	66.7	95.2	80.0	112.5
1850.....		87.5	75.0		94.1	94.1	83.3	66.7	93.3	100.0
1851.....		87.5	75.0		94.1	94.1	83.3	78.6	93.3	93.8
1852.....		83.3	87.5		88.2	94.1	83.3	85.7	93.3	87.5
1853.....		87.5	87.5		82.4	70.6	66.7	85.7	93.3	100.0
1854.....		81.3	75.0		70.6	70.6	66.7	85.7	93.3	137.5
1855.....		87.5	87.5		76.5	58.8	58.3	85.7	93.3	162.5
1856.....	140.0	81.3	75.0		88.2	88.2	75.0	85.7	86.7	162.5
1857.....	106.7	75.0	75.0		82.4	82.4	83.3	85.7	80.0	125.0
1858.....	89.3	87.5	87.5		82.4	82.4	83.3	85.7	93.3	106.3
1859.....	86.7	87.5	87.5		94.1	94.1	91.7	85.7	93.3	93.8
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	150.0	150.0	107.1	129.4	117.6	116.7	142.9	133.3	112.5
1862.....	136.5	175.0	175.0	107.1	147.1	135.3	116.7	171.4	146.7	100.0
1863.....	145.9	187.5	187.5	107.1	164.7	164.7	141.7	185.7	160.0	125.0
1864.....	160.5	175.0	175.0	185.7	152.9	152.9	133.3	171.4	146.7	193.8
1865.....	173.3	162.5	162.5	185.7	117.6	117.6	116.7	171.4	120.0	187.5
1866.....	153.3	162.5	162.5	171.4	105.9	105.9	100.0	171.4	113.3	162.5
1867.....	206.7	162.5	162.5	185.7	105.9	105.9	100.0	171.4	106.7	175.0
1868.....	223.2	162.5	162.5	171.4	105.9	105.9	100.0	171.4	106.7	187.5
1869.....	226.7	156.3	156.3	142.9	105.9	105.9	100.0	171.4	100.0	150.0
1870.....	146.7	150.0	150.0	142.9	105.9	105.9	100.0	157.1	113.3	125.0
1871.....	133.3	150.0	162.5	128.6	94.1	94.1	83.3	142.9	113.3	131.3
1872.....	153.3	150.0	137.5	128.6	88.2	88.2	75.0	142.9	113.3	150.0
1873.....	193.3	137.5	125.0	128.6	82.4	82.4	75.0	128.6	120.0	150.0
1874.....	193.3	137.5	125.0	128.6	82.4	82.4	75.0	128.6	120.0	150.0
1875.....	133.3	125.0	112.5	114.3	82.4	82.4	87.5	114.3	100.0	125.0
1876.....	94.7	125.0	112.5	114.3	76.5	82.4	87.5	114.3	100.0	131.3
1877.....	159.7	125.0	112.5	114.3	82.4	82.4	87.5	114.3	100.0	125.0
1878.....	116.0	112.5	100.0	114.3	64.7	70.6	75.0	100.0	100.0	125.0
1879.....	84.0	112.5	100.0	114.3	88.2	82.4	87.5	100.0	100.0	125.0
1880.....	98.7	125.0	112.5	114.3	70.6	82.4	87.5	114.3	93.3	125.0
1881.....	97.3	125.0	112.5	114.3	70.6	82.4	87.5	114.3	93.3	125.0
1882.....	178.7	125.0	112.5	114.3	82.4	82.4	83.3	114.3	93.3	125.0
1883.....	152.0	125.0	112.5	114.3	82.4			114.3	93.3	125.0
1884.....	146.7	125.0	112.5	114.3	70.6			114.3	93.3	125.0
1885.....	92.0	125.0	112.5	114.3	58.8			114.3	93.3	112.5
1886.....	84.0	125.0	112.5	114.3	58.8			114.3	93.3	112.5
1887.....	92.0	125.0	112.5	114.3	58.8			114.3	86.7	125.0
1888.....	137.3	125.0	112.5	114.3	58.8			114.3	86.7	112.5
1889.....	122.7	125.0	112.5	114.3	58.8			114.3	80.0	112.5
1890.....	109.3	125.0	112.5	114.3	58.8			114.3	80.0	112.5
1891.....	118.7	125.0	112.5	114.3	58.8			114.3	80.0	112.5

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

FOOD—Continued.

Year.	Bread, soda crackers.	Butter.	Cheese.	Coffee, Rio, fair.	Eggs.	Fish.				Flour, wheat.
						Cod.	Mackerel, salt, shore, No. 1.	Mackerel, salt, shore, No. 2.	Mackerel, salt, shore, No. 3.	
1840.....		85.7	90.0	78.3			79.7	123.5	110.0	
1841.....		76.2	90.0	89.1			75.0	117.6	120.0	
1842.....		83.3	70.0	76.1			56.3	70.6	80.0	
1843.....		71.4	65.0	56.5			63.3	95.5	120.0	
1844.....		71.4	50.0	56.5			59.4	88.2	110.0	
1845.....	80.0	71.4	53.8	56.5			81.3	123.5	137.4	
1846.....	80.0	92.9	75.0	65.2			57.0	73.5	77.4	
1847.....	80.0	85.7	70.0	65.2			79.7	97.1	85.0	
1848.....	80.0	81.0	65.0	60.9			56.3	70.6	67.4	
1849.....	80.0	85.7	70.0	50.0			75.0	82.4	70.0	
1850.....	93.3	81.0	60.0	65.2			63.3	95.5	100.0	
1851.....	93.3	83.3	52.5	87.0			62.5	76.5	102.4	
1852.....	93.3	90.5	65.0	69.6			56.3	82.4	115.0	
1853.....	93.3	128.6	85.0	71.7			71.9	111.8	150.0	
1854.....	93.3	81.0	105.0	87.0			93.8	144.1	100.0	
1855.....	93.3	116.7	95.0	73.9			118.8	129.4	125.0	
1856.....	90.0	121.4	85.0	87.0			81.3	94.1	120.0	
1857.....	80.0	111.9	97.5	87.0	61.5		93.8	147.1	170.0	
1858.....	86.7	90.5	65.0	82.6	82.7		96.9	147.1	170.0	
1859.....	93.3	111.9	97.5	93.5	119.2		90.6	148.1	171.8	
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	133.3	81.0	100.0	100.0	69.2	125.0	53.1	52.9	55.0	103.0
1862.....	146.7	90.5	70.0	156.5	90.4	125.0	51.6	70.6	90.0	109.1
1863.....	160.0	116.7	110.0	243.5	76.9	150.0	87.5	108.8	130.0	
1864.....	146.7	145.2	140.0	293.5	111.5	200.0	187.5	235.3		
1865.....	120.0	250.0	225.0	378.3	169.2	387.5	137.5	176.5	195.0	
1866.....	113.3	202.4	180.0	a 160.9	150.0	312.5	142.2	155.9		197.0
1867.....	106.7	183.3	145.0	a 139.1	144.2	250.0	106.3	144.1	150.0	203.0
1868.....	106.7	202.4	145.0	a 113.0	173.1	250.0	106.3	152.9		187.9
1869.....	100.0	221.4	190.0	a 76.1	159.6	200.0	143.8	135.3		151.5
1870.....	113.3	178.6	175.0	a 80.4	180.8	200.0	132.5	114.7		112.1
1871.....	120.0	178.6	140.0	a 91.3	128.8	175.0	70.3	85.3	125.0	124.2
1872.....	126.7	152.4	132.5	a 145.7	144.2	200.0	90.6	111.8		133.3
1873.....	133.3	145.2	132.5	a 147.8	155.8	150.0	125.0	144.1		136.4
1874.....	133.3	145.2	132.5	a 217.4	155.8	200.0	82.8	105.9	140.0	130.3
1875.....	120.0	173.8	150.0	a 160.9	128.8	250.0	101.6	120.6	150.0	121.2
1876.....	120.0	147.6	127.5	a 152.2	126.9	175.0	93.8	79.4	110.0	123.0
1877.....	120.0	150.0	142.5	173.9	113.5	175.0	103.1	147.1	160.0	135.8
1878.....		150.0	127.5	154.3	92.3	150.0	112.5	94.1	100.0	115.2
1879.....	100.0	123.8	85.0	128.3	98.1	150.0	100.0	58.8	60.0	103.0
1880.....	106.7	157.1	125.0	134.8	84.6	150.0	87.5	82.4	80.0	112.1
1881.....	93.3	147.6	127.5	115.2	128.8	175.0	87.5	70.6	80.0	104.2
1882.....	100.0	176.2	127.5	91.3	109.6	250.0	112.5	129.4	160.0	106.1
1883.....	100.0	181.0	135.0	69.6	121.2	250.0	125.0	164.7	210.0	103.0
1884.....	106.7	154.8	127.5	106.5	117.3	200.0	87.5	223.5	70.0	90.9
1885.....	100.0	131.0	125.0	84.8	105.8	250.0	85.9	67.6	75.0	75.8
1886.....	106.7	150.0	97.5	71.7	100.0	200.0	137.5	147.1		73.9
1887.....	106.7	131.0	127.5	128.3	125.0	250.0	109.4	164.7	220.0	72.7
1888.....	106.7	133.3	117.5	163.0	96.2	250.0	137.5	217.6	280.0	65.5
1889.....	100.0	138.1	115.0	147.8	88.5	250.0	175.0	294.1	340.0	89.7
1890.....	100.0	116.7	103.8	165.2	92.3	250.0	131.3	205.9	260.0	68.5
1891.....	100.0	128.6	95.0	165.2	109.6	312.5	150.0	164.7	230.0	72.1

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

FOOD—Continued.

Year.	Flour, rye.	Fruit.			Lard.	Lard, pure leaf.	Meal, corn, yellow, kiln dried.	Meat.	
		Apples, dried.	Currants, Zante.	Raisins.				Bacon, clear.	Beef, loins.
1840	100.0		183.3	59.8	66.7	85.6	93.4	93.0	
1841	78.1		216.7	90.4	76.2	61.4	69.3	75.6	
1842	93.8		141.7	45.7	52.4	44.0	72.3	49.4	
1843	81.3		116.7	65.2	61.9	52.1	61.7	52.3	
1844	81.3		133.3	87.0	54.8	50.9	60.2	58.1	
1845	84.4		166.7	117.4	57.1	50.9	60.2	58.1	
1846	106.3		183.3	87.0	76.2	57.9	96.4	64.0	
1847	96.9		208.3	63.0	61.9	78.7	93.4	50.9	
1848	103.1		158.3	56.5	61.9	56.7	78.3	43.6	
1849	79.7		91.7	60.9	71.4	61.1	72.3	55.2	
1850	71.9		104.2	119.6	61.9	55.6	76.7	52.3	
1851	89.0		120.8	84.8	73.8	75.3	78.3	56.7	
1852	87.5		83.3	70.7	85.7	85.6	84.3	106.2	
1853	112.5		150.0	121.7	114.3	76.4	96.4	82.9	
1854	93.8		300.0	113.0	95.2	58.6	93.4	72.7	
1855	163.8		333.3	115.2	95.2	92.6	114.5	93.0	
1856	175.0	87.1	200.0	130.4	114.3	93.7	105.4	86.0	
1857	121.3	141.9	333.3	163.0	117.9	115.7	90.4	112.3	
1858	93.8	103.2	150.0	82.6	83.3	92.6	84.3	82.0	
1859	93.8	129.0	116.7	89.1	104.8	100.3	96.4	94.0	
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	92.5	77.4	75.0	89.1	95.2	84.3	84.3	64.0	88.9
1862	100.0	96.8	150.0	139.1	76.2	69.4	78.3	56.2	83.3
1863	118.8	83.9	175.0	152.2	88.1	88.0	108.4	60.5	94.4
1864	137.5	122.6	239.6	173.9	114.3	125.0	144.6	119.2	105.6
1865	212.5	200.0	341.7	254.3	195.2	187.5	212.0	170.0	194.4
1866	131.3	183.9	262.5	182.6	135.7	196.8	116.9	184.5	144.4
1867	170.0	129.0	208.3	154.3	111.9	122.7	126.5	133.7	166.7
1868	187.5	138.7	220.8	165.2	114.3	141.2	154.2	154.1	166.7
1869	173.8		179.2	147.8	171.4	170.1	125.3	171.5	166.7
1870	132.5	141.9	183.3	143.5	150.0	140.1	122.9	165.7	166.7
1871	137.5	90.3	166.7	87.0	138.1	108.8	102.4	109.0	166.7
1872	132.5	141.9	133.3	113.0	85.7	83.3	103.4	77.4	150.0
1873	155.0	109.7	108.3	87.0	72.6	76.4	91.6	97.7	150.0
1874	137.5	109.7	102.1	104.3	78.6	90.7	108.4	100.0	144.4
1875	125.0	109.7	100.0	123.9	127.4	133.8	114.5	134.9	144.4
1876	131.3	154.8	122.9	119.6	115.5	122.9	92.8	131.9	133.3
1877	127.5	74.2	102.1	73.9	104.8	97.5	86.7	96.3	122.2
1878	97.5	83.9	95.8	81.5	76.2	74.7	78.3	72.2	122.2
1879	76.3	51.6	62.5	69.6	54.8	63.6	67.5	68.4	111.1
1880	137.5	87.1	108.3	95.7	75.2	69.5	79.5	80.0	111.1
1881	133.8	64.5	91.7	82.6	90.5	97.1	80.7	97.4	116.7
1882	121.3	87.1	93.8	87.0	90.5	120.9	81.9	122.3	116.7
1883	93.8	96.8	93.8	87.0	92.9	107.4	94.0	127.1	105.6
1884	88.8	96.8	83.3	78.3	77.4	83.0	81.9	97.0	122.2
1885	85.0	51.6	62.5	104.3	69.5	69.8	78.3	80.9	111.1
1886	88.8		104.2	126.1	60.3	60.6	74.7	66.5	105.6
1887	72.5	64.5	85.4	84.8	62.9	67.1	68.7	82.7	100.0
1888	93.8	58.1	97.9	97.8	74.8	76.2	75.9	93.7	100.0
1889	85.0	58.1	62.5	97.8	73.3	74.4	75.9	82.1	111.1
1890	81.3	64.5	79.2	95.7	53.8	59.0	63.9	62.3	105.6
1891	107.5	116.1	79.2	91.3	54.3	60.6	78.3	76.0	105.6

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

FOOD—Continued.

Year.	Meat.						Milk, fresh.	Molasses.	
	Beef, salt, mess.	Beef, ribs.	Ham, sugar-cured.	Lamb.	Mutton.	Pork, salt, mess.		New Orleans, prime.	Porto Rico, best.
1840	108.7	.....	144.1	.....	.....	86.4	.....	54.7	78.9
1841	84.8	.....	132.1	.....	.....	77.3	.....	52.8	76.3
1842	71.7	.....	90.0	.....	.....	57.6	.....	47.2	63.2
1843	58.7	.....	96.0	.....	.....	56.8	.....	37.7	55.3
1844	56.5	.....	96.0	.....	.....	60.6	.....	54.7	65.8
1845	45.2	.....	102.0	.....	.....	63.6	.....	58.5	84.2
1846	75.0	.....	108.0	.....	.....	81.8	.....	56.6	68.4
1847	78.3	.....	97.0	.....	.....	62.9	.....	66.0	76.3
1848	78.3	.....	62.4	.....	.....	72.7	.....	54.7	65.8
1849	97.8	.....	75.6	.....	.....	89.4	.....	54.7	65.8
1850	89.1	.....	77.4	.....	.....	72.0	.....	50.0	78.9
1851	87.0	.....	98.4	.....	.....	77.3	.....	49.1	78.9
1852	82.6	.....	111.5	.....	.....	93.2	.....	58.5	73.7
1853	108.7	.....	115.6	.....	.....	116.7	.....	58.5	76.3
1854	121.7	.....	105.0	.....	.....	83.3	.....	52.8	71.1
1855	134.8	.....	114.0	.....	.....	77.3	.....	50.9	73.7
1856	104.3	.....	104.0	.....	.....	103.0	.....	92.5	115.8
1857	129.1	.....	96.0	.....	.....	123.5	.....	150.9	164.5
1858	104.3	.....	100.0	.....	.....	89.4	.....	66.0	78.9
1859	87.0	.....	100.0	.....	.....	106.1	.....	69.8	86.8
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	91.3	93.3	80.0	72.0	110.0	101.5	100.0	69.8	92.1
1862	104.3	86.7	106.8	88.0	100.0	75.0	80.0	103.8	105.3
1863	108.7	93.3	195.1	.....	100.0	86.4	.....	105.7	126.3
1864	106.5	106.7	256.9	128.0	120.0	118.2	.....	132.1	171.1
1865	165.2	186.7	288.1	112.0	190.0	212.1	.....	283.0	289.5
1866	208.7	166.7	298.3	152.0	160.0	186.4	130.0	235.8	157.9
1867	178.3	160.0	289.3	128.0	170.0	130.3	170.0	166.0	171.1
1868	173.9	166.7	218.0	208.0	170.0	137.9	160.0	169.8	171.1
1869	182.6	166.7	222.1	136.0	170.0	163.6	165.0	150.9	157.9
1870	156.5	166.7	246.1	144.0	180.0	172.7	140.0	147.2	184.2
1871	165.2	166.7	210.1	136.0	170.0	117.4	130.0	139.6	157.9
1872	100.0	153.3	162.1	152.0	180.0	87.9	130.0	101.9	100.0
1873	115.2	146.7	175.0	144.0	160.0	83.3	130.0	120.8	144.7
1874	100.0	140.0	159.7	136.0	160.0	99.4	130.0	135.8	144.7
1875	100.0	140.0	164.0	128.0	160.0	121.2	130.0	118.9	144.7
1876	95.7	133.3	172.9	120.0	160.0	126.5	125.0	103.8	131.6
1877	126.1	120.0	148.1	96.0	150.0	107.3	125.0	101.9	144.7
1878	104.3	120.0	124.2	96.0	140.0	75.8	120.0	75.5	94.7
1879	82.6	106.7	112.2	100.0	125.0	46.1	120.0	67.9	105.3
1880	91.3	106.7	119.0	104.0	120.0	77.3	100.0	.....	.....
1881	73.9	113.3	130.3	120.0	120.0	84.8	110.0	81.1	131.6
1882	104.3	113.3	161.1	112.0	130.0	107.6	110.0	94.3	131.6
1883	108.7	106.7	163.4	112.0	130.0	112.1	110.0	113.2	105.3
1884	95.7	126.7	161.9	112.0	140.0	87.9	110.0	94.3	94.7
1885	95.7	113.3	128.5	120.0	130.0	77.3	110.0	90.6	92.1
1886	82.6	106.7	121.7	108.0	130.0	60.6	110.0	83.0	94.7
1887	60.9	100.0	137.8	120.0	130.0	75.8	100.0	75.5	78.9
1888	65.2	100.0	134.8	112.0	130.0	93.9	100.0	81.1	105.3
1889	60.9	113.3	138.8	104.0	125.0	84.8	100.0	75.5	94.7
1890	56.5	106.7	130.0	112.0	140.0	62.1	100.0	79.2	110.5
1891	60.9	106.7	122.2	102.0	130.0	71.0	100.0	67.9	94.7

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

FOOD—Continued.

Year.	Rice, Carolina, prime.	Salt.					Spices.		Starch, corn.
		Ashton's.	Ashton's Liverpool, fine.	Coarse, solar.	Fine, boiled.	Turk's Island.	Nutmegs.	Pepper, whole, Su-matra.	
1840.....	64.7	74.4	74.8	99.6	64.0	160.0	202.4	89.6	.....
1841.....	74.8	71.8	72.7	99.6	64.0	150.0	190.5	95.5	.....
1842.....	64.9	110.3	110.4	99.6	64.0	130.0	208.3	83.6	.....
1843.....	58.8	79.5	79.2	74.9	68.0	142.5	190.5	101.5	.....
1844.....	64.7	71.8	71.4	74.9	68.0	155.0	185.7	116.4	.....
1845.....	64.7	70.8	71.4	74.9	60.0	120.0	250.0	125.4	.....
1846.....	123.5	71.8	72.7	97.4	76.0	140.0	333.3	125.4	.....
1847.....	97.1	66.7	66.2	112.4	93.6	125.0	321.4	83.6	.....
1848.....	76.5	74.4	74.0	79.4	74.4	130.0	297.6	74.6	.....
1849.....	79.4	64.1	64.9	74.9	61.6	105.0	196.4	64.2	.....
1850.....	82.4	74.4	75.3	85.0	95.2	115.0	257.1	89.6	.....
1851.....	82.4	82.1	83.1	85.0	100.0	115.0	250.0	92.5	111.8
1852.....	82.4	71.8	72.7	85.0	80.0	100.0	208.3	110.4	111.8
1853.....	100.0	102.6	103.9	85.0	94.4	135.0	214.3	125.4	118.0
1854.....	105.9	66.7	93.5	85.0	107.2	225.0	273.8	125.4	118.0
1855.....	105.9	81.0	83.1	85.0	104.0	250.0	226.2	131.3	124.2
1856.....	129.4	76.9	77.9	85.0	112.8	125.0	214.3	122.4	130.4
1857.....	102.9	78.5	79.2	85.0	100.0	110.0	196.4	143.3	118.0
1858.....	88.2	66.7	66.2	85.0	101.6	87.5	125.0	119.4	96.7
1859.....	88.2	70.8	71.7	100.0	72.0	85.0	119.0	107.5	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	91.2	82.1	83.1	117.6	100.0	85.0	90.5	95.5	100.0
1862.....	182.4	87.2	88.3	138.6	112.0	100.0	142.9	185.1	94.1
1863.....	.....	110.3	111.7	138.6	159.2	150.0	190.5	274.6	111.8
1864.....	.....	143.6	145.5	183.5	210.0	240.0	214.3	346.3	129.4
1865.....	282.4	243.6	246.8	157.3	180.8	330.0	428.6	537.3	176.5
1866.....	282.4	207.7	202.6	176.0	188.0	210.0	a 208.3	a 274.6	152.9
1867.....	208.8	141.0	a 142.9	176.0	188.0	280.0	a 209.5	a 256.7	152.9
1868.....	202.4	133.3	a 135.1	176.0	188.0	240.0	a 208.3	a 280.6	152.9
1869.....	205.9	128.2	a 129.9	176.0	188.0	240.0	a 219.0	a 280.6	152.9
1870.....	170.6	128.2	a 129.9	164.8	172.0	205.0	a 226.2	a 304.5	141.2
1871.....	170.6	166.7	161.0	149.8	160.0	210.0	a 190.5	a 191.0	141.2
1872.....	205.9	143.6	145.5	112.4	112.0	225.0	a 232.1	a 209.0	129.4
1873.....	194.1	153.8	148.1	76.4	112.0	150.0	a 219.0	a 203.0	129.4
1874.....	200.0	153.8	135.1	67.4	128.0	125.0	a 238.1	a 262.7	129.4
1875.....	188.2	141.0	142.9	61.4	112.0	125.0	a 250.0	a 244.8	129.4
1876.....	167.6	128.2	124.7	59.9	72.0	105.0	a 238.1	a 170.1	123.5
1877.....	152.9	128.2	129.9	54.7	68.0	135.0	a 202.4	a 167.2	123.5
1878.....	152.9	128.2	129.9	56.2	60.0	112.5	a 190.5	a 149.3	120.1
1879.....	150.0	128.2	129.9	60.7	100.0	120.0	a 192.9	a 140.3	102.9
1880.....	176.5	128.2	129.9	62.2	60.0	125.0	214.3	170.1	102.9
1881.....	164.7	128.2	129.9	60.7	60.0	110.0	200.0	167.2	102.9
1882.....	164.7	128.2	129.9	62.9	60.0	150.0	190.5	209.0	108.7
1883.....	141.2	128.2	129.9	64.4	60.0	150.0	181.0	211.9	108.7
1884.....	141.2	128.2	129.9	59.9	60.0	115.0	135.7	161.2	105.9
1885.....	144.1	128.2	129.9	56.2	56.0	110.0	107.1	173.1	94.1
1886.....	126.5	128.2	129.9	53.9	52.0	100.0	103.6	182.1	94.1
1887.....	108.8	128.2	129.9	53.9	52.0	150.0	115.5	191.0	82.4
1888.....	108.8	128.2	129.9	53.9	52.0	150.0	135.7	185.1	82.4
1889.....	120.6	128.2	129.9	53.2	52.0	140.0	131.0	177.6	82.4
1890.....	126.5	128.2	116.9	55.4	52.0	115.0	148.8	152.2	70.6
1891.....	126.5	128.2	116.9	55.4	52.0	125.0	142.9	107.5	82.4

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

FOOD—Concluded.

Year.	Starch, corn.	Sugar.					Tallow, prime, city, in hogsheads.	Vegetables.	
		Brown.	Cut.	Fair refining.	Havana brown.	Refined, crushed and granulated.		Fresh, potatoes, white.	Fresh, potatoes, white.
1840				84.5	87.5	120.0	87.8		
1841				103.4	95.3	112.5	90.2		
1842				81.0	84.4	105.0	78.0		
1843				81.0	71.9	102.5	74.4		
1844				94.8	85.9	117.5	65.9		
1845				79.3	91.4	112.5	68.3		
1846				86.2	95.3	125.0	73.2		
1847				96.6	89.1	100.0	78.0		
1848				62.1	68.8	87.5	78.0		
1849				55.2	60.9	85.0	78.0		
1850				65.5	75.0	83.8	73.2		
1851				65.5	78.1	87.5	73.2		181.3
1852				58.6	64.1	75.0	70.7		150.0
1853				62.1	73.4	83.8	97.6		137.5
1854				60.3	73.4	83.8	104.9		175.0
1855				58.6	69.5	80.0	122.0		137.5
1856				101.7	93.8	102.5	126.8		175.0
1857				124.1	125.0	126.3	109.8		168.8
1858				82.8	89.1	103.8	90.2		131.3
1859				94.8	95.3	98.8	104.9		125.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	94.1	100.0	97.6	74.1	72.7	83.8	82.9	114.3	106.3
1862	94.1	96.4	107.3	106.9	97.7	110.0	92.7	128.6	106.3
1863	111.8			131.0	121.1	132.5	101.2	142.9	125.0
1864	152.9			165.5	160.9	168.8	125.6	171.4	200.0
1865	152.9			244.8	239.1	285.0	175.6	157.1	193.8
1866	141.2	192.9	172.0	158.6	153.9	185.0	122.0	157.1	118.8
1867	152.9			134.5		150.0	111.0	257.1	187.5
1868	152.9			158.6		167.5	106.1	185.7	200.0
1869	141.2	257.1	204.9	155.2		152.5	117.1	114.3	156.3
1870	141.2			144.8		148.8	98.8	157.1	193.8
1871	129.4	142.9		127.6		141.3	87.8	171.4	137.5
1872	129.4			125.9		123.8	89.0	171.4	125.0
1873	129.4			125.9		122.5	85.4	114.3	125.0
1874	129.4			101.7		105.0	75.6	128.6	143.8
1875	129.4	128.6	107.3	110.3		106.3	87.2	135.7	106.3
1876	123.5	117.9	107.3	110.3		103.8	95.1	185.7	152.5
1877	120.1	135.7	114.6	131.0		117.5	84.1	100.0	125.0
1878	102.9	107.1	96.3	101.7		86.3	74.4	128.6	175.0
1879	102.9	98.2	89.0	87.9		88.8	64.6	100.0	118.8
1880	102.9	110.7	95.1	105.2		97.5	65.9	114.3	137.5
1881	102.9	100.0	93.9	106.9		92.5	59.1	257.1	193.8
1882	101.4	100.0	98.8	103.4		93.8	80.5	135.7	156.3
1883	108.7	96.4	87.8	95.7		87.5	78.0	92.9	135.0
1884	94.1	98.6	79.3	84.5		78.8	75.6	92.9	112.5
1885	94.1	67.9	65.9	65.5		58.8	59.1	114.3	112.5
1886	78.2	73.2	67.1	76.7		68.1	47.6	100.0	118.8
1887	78.2	67.9	63.4	63.8		56.9	40.2	142.9	168.8
1888	78.4	82.1	78.0	70.7		71.3	42.7	100.0	131.3
1889	65.4	82.1	80.5	67.2		72.5	61.0	121.4	168.8
1890	67.7	80.4	74.4	67.2		65.0	43.3	157.1	141.3
1891	73.6	75.0	62.2	62.9		59.4	45.1	100.0	100.0

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

CLOTHS AND CLOTHING.

Year.	Blankets, 11-4, 5 pounds to the pair.		Broadcloths.		Calico, Cocheo prints.	Carpets.			Cassimeres, all wool, 3-4, 7-ounce, Harris double and twist.
	Cotton warp, cotton and wool filling.	Cotton warp, all wool filling.	First quality, black, 54-inch, made from XXX wool.	Second quality, black, 54-inch, made from XX wool.		Brussels, 5-frame, Bigelow.	Ingrain, 2-ply, Lowell.	Wilton, 5-frame, Big- elow.	
1840			159.9	161.3	126.3		133.3		
1841			190.4	210.0	121.1		118.9		80.0
1842			158.9	156.7	115.8		120.1		80.0
1843			190.4	166.7	105.3		98.9		88.9
1844			203.0	200.0	115.8		98.8		88.9
1845			177.7	160.0	115.8		108.1		88.9
1846			155.3	146.0	115.8		106.6		88.9
1847			144.2	138.7	110.5		101.2		88.9
1848			111.2	116.7	105.3		106.1		88.9
1849			111.2	109.3	94.7		98.1		88.9
1850			111.2	124.0	100.0	92.3	98.8		88.9
1851			127.9	128.7	105.3	96.2	104.5		88.9
1852			122.3	124.0	100.0	96.2	92.7		85.3
1853			133.5	124.0	110.5	96.2	105.8		85.3
1854			111.2	102.0	110.5	107.7	126.8		85.3
1855			111.2	102.0	105.3	96.9	106.3		85.3
1856			122.3	116.7	100.0	100.0	116.4		85.3
1857			111.2	100.0	105.3	105.8	113.0		96.1
1858			111.2	109.3	100.0	92.3	102.2		96.1
1859			100.0	102.0	100.0	98.1	95.6		96.1
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	91.7	92.9	100.0	102.0	94.7	92.3	101.4	100.0	100.0
1862	108.3	107.1	111.2	131.3	131.6	100.0	106.6	105.4	111.1
1863	120.0	111.4	130.5	156.7		134.6	149.5	151.4	168.9
1864	120.0	114.3	223.4	253.3	421.1	165.4	179.4	173.0	168.9
1865		121.4	174.1	200.0	289.5	269.2	260.6	202.7	168.9
1866		107.1	162.9	200.0	221.1	211.5	241.6	202.7	168.9
1867		100.0	141.6	146.0	168.4	211.5	239.6	202.7	126.7
1868		92.9	140.1	153.3	142.1	184.6	178.9	189.2	116.1
1869		94.3	123.4	142.7	147.4	192.3	172.9	202.7	105.6
1870		94.3	123.4	142.7	136.8	192.3	165.1	162.2	105.6
1871		97.1	122.3	142.7	121.1	153.8	152.7	162.2	116.1
1872		111.4	122.3	142.7	126.3	165.4	171.1	175.7	116.1
1873		121.4	128.4	142.7	126.3	161.5	159.0	175.7	116.1
1874		114.3	128.4	142.7	100.0	153.8	145.1	175.7	109.8
1875		114.3	128.4	142.7	100.0	153.8	131.4	175.7	105.6
1876		102.9	128.4	142.7	63.2	153.8	130.7	162.2	84.4
1877		91.4	110.7	138.0	78.9	134.6	116.0	154.1	84.4
1878		85.7	99.0	122.0	68.4	119.2	106.8	154.1	84.4
1879	83.3	85.7	111.2	131.3	68.4	109.6	88.6	137.8	
1880	93.3	95.7	108.6	128.7	84.2	105.8	117.8	148.6	
1881	88.3	91.4	108.6	128.7	73.7	111.5	106.1	132.4	
1882	83.3	87.1	106.6	128.7	68.4	103.8	110.8	116.2	
1883	76.7	82.9	102.0	122.7	68.4	103.8	110.1	121.6	
1884	68.3	77.1	100.0	116.7	63.2	98.1	93.3	110.8	94.0
1885	75.0	78.6	100.0	116.7	57.9	92.3	81.8	108.1	83.6
1886	80.0	82.9	100.0	116.7	63.2	86.5	90.3	108.1	83.6
1887	76.7	82.9	100.0	116.7	50.0	86.5	86.0	108.1	82.7
1888	76.7	82.9	100.0	116.7	68.4	84.6	78.5	108.1	82.7
1889	80.0	85.7	100.0	116.7	68.4	82.7	75.1	108.1	82.7
1890	76.7	82.9	100.0	116.7	68.4	82.7	75.0	108.1	78.5
1891	76.7	82.9	100.0	116.7	63.2	90.4	78.4	113.5	78.5

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

CLOTHS AND CLOTHING—Continued.

Year.	Cassimeres, all wool.			Checks, black and white, all wool, 3-4, 7-ounce, Harris.	Cotton, upland, middling.	Denims, Amoskeag.	Drillings, 30-inch, Pepperell.	Hides, dry, Buenos Ayres.	Horse blankets, 6 pounds, all wool.
	3-4, 12-ounce, Harris double and twist.	3-4, 12-ounce, Harris silk mixed.	Fancy, 3-4, light weight.						
1840					89.8			62.9	
1841					83.0			62.9	
1842					75.0			55.1	
1843					64.8			53.8	
1844					78.4	82.8		53.7	
1845					46.6	89.7		56.4	
1846					68.2	89.7		50.8	
1847					97.7	96.6	88.9	51.4	
1848					78.4	86.2	82.7	40.6	
1849					62.5	82.8	72.2	44.1	
1850					105.7	89.7	86.1	53.3	
1851					127.3	89.7	97.2	56.8	
1852	100.0				77.3	82.8	75.0	61.4	
1853	100.0			90.0	92.0	79.3	86.1	72.7	
1854	100.0			90.0	100.0	72.4	86.1	86.9	
1855	100.0	100.0		90.0	77.3	86.2	86.1	95.0	
1856	100.0	100.0	107.4	90.0	84.1	89.7	88.9	110.3	
1857	100.0	100.0	105.4	90.0	119.3	110.3	97.2	129.0	
1858	100.0	100.0	100.0	90.0	81.8	110.3	100.0	101.4	
1859	100.0	100.0		100.0	110.2	100.0	97.2	108.4	
1860	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0		100.0	109.1	103.4	97.2	82.3	91.9
1862	109.1	107.1		108.3	327.3	124.1	146.0	101.5	104.1
1863	143.9	127.2	162.2	145.8	613.6	258.6	308.8	118.0	108.1
1864	161.9	141.4	193.2	145.8	736.4	379.3	449.2	137.2	109.5
1865	197.9	183.8	259.2	166.7	1,090.9	463.8	673.8	116.9	121.6
1866	179.9	162.6		166.7	468.2	374.1	365.0	113.2	110.8
1867	161.9	141.4		128.6	322.7	269.0	252.7	115.2	101.4
1868	161.9	141.4	150.6	128.6	152.3	172.4	168.4	119.2	94.6
1869	125.9	127.2		128.6	236.4	186.2	185.3	120.4	100.0
1870	125.9	127.2		128.6	230.7	184.5	185.3	111.9	95.9
1871	143.9	127.2	149.2	138.5	138.6	165.5	151.6	115.1	100.0
1872	161.9	141.4		138.5	185.2	155.2	162.8	122.6	112.2
1873	143.9	113.1		138.5	186.4	150.0	168.4	122.8	121.6
1874	143.9	127.2	150.5	118.8	147.7	141.4	135.9	119.0	102.7
1875	125.9	120.2	136.6	118.8	130.7	125.9	127.1	104.1	112.2
1876	108.0	113.1	124.1	89.1	120.5	122.4	112.3	89.9	100.0
1877	108.0	91.9	109.0	89.1	114.8	101.7	97.5	96.7	91.9
1878	99.0	77.8		89.1	102.3	103.4	94.6	85.1	86.5
1879			98.0		86.4	100.0	82.7	86.2	81.1
1880			110.0		115.9	100.0	103.4	98.9	106.8
1881			105.8		108.0	100.0	94.6	97.4	100.0
1882			110.5		108.0	105.2	94.6	100.5	97.3
1883	89.0		116.7		92.6	98.3	97.5	96.6	93.2
1884	89.0	90.9	94.7	117.5	94.9	87.9	82.7	97.9	81.1
1885	89.0	83.9	99.6	97.9	100.6	84.5	76.8	93.9	74.3
1886	89.0	90.9	100.6	88.1	83.5	81.0	73.9	86.2	87.8
1887	89.0	90.0	106.8	87.2	86.4	87.9	73.9	78.6	83.8
1888	89.0	83.0	93.9	87.2	96.0	86.2	79.8	70.1	79.7
1889	89.0	76.1	83.0	87.2	86.4	84.5	79.8	66.3	83.8
1890	89.0	73.4	98.9	87.2	93.2	81.0	79.8	58.1	84.5
1891	89.0	69.2	99.6	82.3	84.7	81.0	76.8	55.2	81.1

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

CLOTHS AND CLOTHING—Concluded.

Year.	Leather, harness.	Print cloths.		Shawls, standard, 72 by 144 inches, weighing 42 ounces, made of XX Ohio fleece wool.	Sheetings, brown, 4-4, Atlantic A.	Shirtings, bleached, 4-4, New York Mills.	Sole leather, first quality, medium weight, Buenos Ayres.	Tickings, Amoskeag, A. C. A.	Wool, Ohio, medium fleece, scoured.	Wool, Ohio, fine fleece, scoured.
		28-inch, 64 by 64, Metacomet.	28-inch, 7 yards to the pound, standard.							
1840.....	62.9						96.6	102.9		
1841.....	68.6						98.6	100.0		
1842.....	65.7						87.4	94.1		
1843.....	68.6						79.5	82.4		
1844.....	62.9						79.7	91.2		
1845.....	62.9						70.9	91.2		
1846.....	62.9						69.7	94.1		
1847.....	68.6	107.0	106.7		91.1	93.5	81.9	94.1		
1848.....	68.6	86.0	80.0		88.1	93.5	73.2	94.1		
1849.....	68.6	76.7	73.3		74.9	90.3	79.5	88.2		
1850.....	68.6	95.3	88.9		88.1	96.8	76.9	88.2	81.0	81.2
1851.....	71.4	81.4	77.8	114.4	96.9	96.8	70.7	91.2	87.3	83.4
1852.....	71.4	88.4	84.4	115.1	77.8	93.5	70.9	85.3	79.9	79.8
1853.....	74.3	111.6	111.1	114.0	89.6	93.5	88.0	94.1	113.0	104.4
1854.....	80.0	100.0	102.2	114.0	94.0	96.8	102.6	94.1	91.5	89.0
1855.....	85.7	95.3	97.8	114.0	91.1	96.8	104.9	88.2	79.6	83.7
1856.....	94.3	95.3	95.6	117.0	88.1	96.8	123.4	94.1	96.1	102.2
1857.....	114.3	107.0	104.4	100.0	100.0	96.8	135.1	102.9	102.5	99.5
1858.....	88.6	97.7	97.8	100.0	100.0	96.8	111.8	105.9	79.2	80.5
1859.....	100.0	102.3	102.2	100.0	96.9	96.8	115.1	97.1	100.4	106.6
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	94.3	76.7	80.0	103.4	102.9	96.8	90.1	95.6	81.7	80.7
1862.....	94.3	155.8	153.3	102.2	164.5	109.7	108.6	122.1	107.7	91.7
1863.....	108.6	260.2	257.8	149.7	356.3	209.7	140.3	266.2	166.9	147.8
1864.....	142.9	593.0	524.4	185.8	504.6	266.6	181.7		195.8	172.7
1865.....	171.4	360.5	337.8	159.4	712.5	411.3	169.9	451.5	180.6	162.0
1866.....	148.6	267.4	257.8	156.9	391.5	320.5	162.2	463.2	138.7	128.0
1867.....	145.7	165.1	160.0	148.7	261.3	260.8	141.7	341.2	112.3	110.5
1868.....	137.1	176.7	157.8	107.3	178.1	182.6	129.1	222.1	99.6	86.6
1869.....	134.3	160.5	155.6	107.3	190.0	179.3	140.7	182.4	104.6	88.3
1870.....	131.4	114.0	115.6	103.7	190.0	146.7	137.7	188.2	97.9	87.6
1871.....	125.7	137.2	133.3	103.7	154.4	130.4	133.1	163.2	115.5	104.1
1872.....	117.1	148.8	142.2	103.7	160.4	135.6	131.6	160.3	155.3	152.9
1873.....	125.7	111.6	117.8	101.7	166.3	135.6	135.4	152.9	120.4	116.8
1874.....	120.0	102.3	100.0	97.0	142.5	123.9	135.6	144.1	117.6	112.4
1875.....	105.7	95.3	91.1	97.0	124.8	97.8	130.3	132.4	112.3	102.0
1876.....	102.9	69.8	65.6	99.1	112.9	91.3	117.7	116.2	95.4	84.9
1877.....	100.0	81.4	75.6	99.1	106.9	84.8	117.8	91.2	94.0	88.8
1878.....	100.0	64.0	62.2	97.0	98.0	75.0	98.5	88.2	88.7	72.9
1879.....	91.4	76.7	74.4	103.7	83.1	68.5	105.7	82.4	81.3	70.0
1880.....	117.1	74.4	71.1	108.7	106.9	84.8	120.3	88.2	118.0	100.2
1881.....	114.3	73.3	70.0	106.0	100.9	81.5	116.4	94.1	102.5	93.2
1882.....	108.6	72.1	68.4	106.0	103.9	84.8	117.1	97.1	101.4	88.3
1883.....	102.9	67.4	64.4	103.2	95.0	78.2	116.0	91.2	95.4	83.9
1884.....	102.9	61.6	57.8	97.8	86.1	68.5	119.7	76.4	83.1	78.5
1885.....	97.1	55.8	53.3	97.8	86.1	64.2	111.4	69.1	74.6	69.5
1886.....	97.1	65.1	57.8	97.8	80.1	66.8	108.1	66.2	80.3	72.2
1887.....	97.1	60.5	57.8	97.8	80.1	69.9	100.1	76.5	85.9	71.5
1888.....	94.3	74.4	71.1	97.8	86.1	69.9	95.2	75.0	77.1	66.3
1889.....	94.3	73.3	70.0	97.8	83.1	68.5	89.6	70.6	85.9	71.7
1890.....	85.7	62.8	60.0	96.0	83.1	70.1	89.7	70.6	83.5	71.5
1891.....	85.7	54.7	51.7	95.0	83.1	71.7	87.0	70.6	81.7	69.0

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

FUEL AND LIGHTING.

Year.	Candles, best ad- anantine.	Coal, anthracite.							Coal, bituminous.	Matches, 8-card.
		Chestnut.	Egg.	F. lump.	Grate.	Pea.	S. lump.	Stove.		
1840.....										395.8
1841.....				146.7				115.4		364.6
1842.....				146.7				115.4		343.8
1843.....						83.3				291.7
1844.....			98.7	80.0	101.4	80.0		83.3		275.0
1845.....										239.6
1846.....						100.0				187.5
1847.....	92.6		121.7	120.0	121.6	91.7		102.6		125.0
1848.....	103.7		115.1	110.0	114.9			92.9		100.0
1849.....	100.0									100.0
1850.....	111.1					96.7				100.0
1851.....	122.2		96.1	94.7	98.6	83.3		85.9		100.0
1852.....	111.1		85.5	84.0	89.2		101.3	83.3		100.0
1853.....	103.7		101.3	98.7	104.1	103.3		100.0		100.0
1854.....	100.0		105.3	101.3	108.1	131.7	104.0	103.8		100.0
1855.....	96.3		127.6	121.3	129.7	143.3	124.0	126.9		100.0
1856.....	100.0		139.5	133.3	140.5	123.3	136.0	138.5		100.0
1857.....	114.8		121.1	113.3	120.3	93.3	116.0	120.5	120.0	100.0
1858.....	96.3	112.7	117.1	112.0	114.9		112.0	117.9	120.0	100.0
1859.....	96.3	100.0	102.6	92.0	101.4		97.3	105.1	94.8	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	96.3	98.4	105.3	101.3	116.2	91.7	101.3	116.7	108.0	100.0
1862.....	92.6	95.2	97.4	106.7	108.1	76.7	100.0	98.7	97.0	100.0
1863.....	96.3	92.1	98.7		102.7			100.0	160.0	100.0
1864.....	100.0	198.4	230.3		216.2			243.6	173.0	100.0
1865.....	148.1	269.8	250.0		243.2	283.3		243.6	256.2	208.3
1866.....	122.2	325.4	302.6	280.0	304.1		293.3	301.3	200.0	395.8
1867.....	111.1	182.5	164.5		162.2			179.5	189.0	385.4
1868.....	111.1								170.0	375.0
1869.....	111.1								155.0	354.2
1870.....	111.1								145.0	333.3
1871.....	103.7	136.5	121.1	113.3	118.9		113.3	130.8	157.0	302.1
1872.....	103.7	158.7	138.2	120.0	135.1		122.7	153.8	140.0	270.8
1873.....	103.7	138.1	121.1	110.7	117.6		113.3	129.5	127.0	250.0
1874.....	103.7	160.3	142.1	134.7	141.9		137.3	146.2	141.0	239.6
1875.....	92.6	169.8	155.3	148.0	155.4		150.7	164.1	133.0	239.6
1876.....	81.5	157.1	148.7	134.7	141.9		137.3	156.4	115.0	229.2
1877.....	77.8	122.2	85.5	80.0	85.1		81.3	105.1	106.0	229.2
1878.....	70.4	96.8	73.7	70.7	71.6		70.7	79.5	85.0	218.8
1879.....	63.0	103.2	82.9	84.0	85.1	58.3	84.0	94.9	89.6	208.3
1880.....	59.3	112.7	80.3	80.0	81.1	108.3	80.0	92.3	100.0	208.3
1881.....	59.3	125.4	106.6	102.7	104.1		102.7	110.3	104.0	208.3
1882.....	66.7	125.4	102.6	100.0	101.4	100.0	100.0	103.8	103.0	197.9
1883.....	63.0	150.8	115.8	106.7	112.2	100.0	106.7	120.5	100.0	166.7
1884.....	59.3	141.3	102.6	100.0	101.4	95.0	100.0	110.3	89.0	125.0
1885.....	55.6	128.6	96.1	97.3	98.6	70.0	97.3	109.0	66.0	77.1
1886.....	51.9	114.3	92.1	88.0	89.2		88.0	106.4	69.0	77.1
1887.....	44.4	117.5	97.4	92.0	93.2	103.3	92.0	103.8	65.0	77.1
1888.....	44.4	139.7	107.9	101.3	102.7	93.3	101.3	112.8	63.0	77.1
1889.....	48.1	142.9	109.2	101.3	102.7	91.7	101.3	115.4	63.0	77.1
1890.....	44.4	128.6	103.9	98.7	100.0	100.0	98.7	107.7	66.0	77.1
1891.....	48.1	120.6	103.9	96.0	97.3	100.0	96.0	109.0	62.0	77.1

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

METALS AND IMPLEMENTS.

Year.	Anvils, domestic.	Bar iron, best re-fined, rolled.	Butts, loose joint, cast, 3 by 3-inch.	Copper, ingot.	Copper, sheet.	Door knobs, mineral.	Iron rails, standard. (a)	Iron rods, for making common wood screws.	Iron wire, market, No. 10.	Lead, drop shot.
1840.....				76.6	94.9			180.9		127.7
1841.....				76.6	91.5			152.2		127.7
1842.....				72.3	84.7			133.9		102.1
1843.....				74.5	88.1			133.9		85.1
1844.....		145.7		72.3	81.4			144.8		85.1
1845.....		159.6		73.4	81.4			159.3		85.1
1846.....		156.0	171.9	70.2	84.7			152.0		85.1
1847.....	200.0	146.5	187.7	76.6	84.7			145.5		93.6
1848.....	192.3	135.0	187.7	74.5	81.4			130.3		99.1
1849.....	169.2	114.9	143.9	72.3	81.4	261.6	112.3	123.1		80.9
1850.....	134.6	101.3	143.9	70.2	81.4	149.6	99.8	101.4		76.6
1851.....	124.6	93.0	136.8	73.4	81.4	66.4	95.1	92.7		89.4
1852.....	124.6	100.1	100.0	74.5	81.4	66.4	100.8	94.1		85.1
1853.....	118.5	142.1	112.3	97.9	94.9	73.6	160.9	135.8		110.6
1854.....	104.6	155.5	140.4	127.7	113.6	56.8	166.9	112.0		119.2
1855.....	104.6	126.9	133.3	102.1	113.6	80.0	131.0	120.7		
1856.....	104.6	125.5	110.5	114.9	113.6	83.2	134.1	109.4		119.2
1857.....	104.6	120.9	140.4	125.5	113.6	75.2	133.9	104.3		110.6
1858.....	104.6	106.0	124.6	83.0	100.0	60.0	104.2	94.1		102.1
1859.....	110.8	102.1	100.0	98.9	100.0	60.0	102.9	99.9		102.1
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	104.6	103.5	89.5	80.9	100.0	100.0	88.3	105.5	100.0	110.6
1862.....	104.6	119.9	89.5	112.8	93.2	89.6	87.0	158.1	100.0	144.7
1863.....	112.3	155.0	133.3	131.9	128.8	92.0	160.2	211.9	169.2	170.2
1864.....	138.5	249.3	178.9	160.6	162.7	248.0	262.5	282.8	211.5	229.8
1865.....	188.5	181.1	308.8	208.5	220.3	232.0	205.5	214.4	148.1	340.4
1866.....	188.5	167.0	277.2	174.5	186.4	152.0	180.7	195.4	190.4	238.3
1867.....	176.9	148.2	277.2	119.1	135.6	108.0	173.2	177.5	179.8	178.7
1868.....	149.2	145.8	224.6	89.4	118.6	108.0	164.3	181.4	158.7	195.7
1869.....	149.2	139.0	180.7	100.5	111.9	108.0	160.9	162.2	158.7	204.3
1870.....	124.6	134.4	149.1	92.6	111.9	80.0	150.5	145.8	126.9	170.2
1871.....	124.6	133.7	98.2	95.7	108.5	72.0	146.6	157.6	126.9	140.4
1872.....	124.6	166.2	142.1	117.0	122.0	100.0	177.4	177.4	158.7	160.9
1873.....	136.9	147.1	173.7	144.7	152.5		159.7	166.3	142.3	172.3
1874.....	136.9	115.7	157.9	106.4	118.6		122.4	147.3	116.3	172.3
1875.....	123.1	103.6	117.5	98.9	101.7	81.6	99.5	133.9	105.8	137.9
1876.....	113.8	88.6	129.8	98.9	105.1	82.8	85.9	112.6	95.2	149.4
1877.....	103.1	77.5	122.8	83.0	108.5	68.0	73.4	98.0	89.8	149.4
1878.....	103.1	75.3	75.4	74.5	94.9	60.6	70.3	93.5	89.8	134.0
1879.....	103.1	88.3	70.2	67.6	84.7	60.8	85.9	113.4	74.0	99.6
1880.....	103.1	102.8	138.6	90.4	101.7	73.0	102.6	98.6	95.2	109.6
1881.....	110.8	98.8	114.0	81.9	94.9	57.8	98.2	114.3	95.2	114.9
1882.....	110.8	104.5	114.0	87.2	101.7	59.4	94.8	106.0	95.2	114.4
1883.....	110.8	85.6	103.5	76.6	101.7	58.4		78.6	84.6	114.4
1884.....	110.8	75.0	93.0	63.8	71.2	49.4		76.0	63.5	106.2
1885.....	110.8	68.6	93.0	47.3	54.2	48.0		74.1	63.5	98.0
1886.....	110.8	73.4	77.2	51.1	47.5	48.0		74.3	63.5	98.0
1887.....	110.8	84.0	70.2	51.1	61.0	47.2		72.9	63.5	98.0
1888.....	110.8	76.6	78.9	75.0	84.7	40.0		73.7	63.5	98.0
1889.....	118.5	73.9	73.7	74.5	84.7	40.0		87.7	57.7	76.3
1890.....	118.5	78.2	70.2	61.2	74.6	40.0		77.9	63.5	76.6
1891.....	118.5	72.4	70.2	59.6	74.6	40.0		76.0	57.7	88.0

a Since the beginning of 1883 this article has been almost entirely superseded by steel rails.

TABLE 1.—Wholesale prices of commodities for 52 years—Relative prices—Continued.

METALS AND IMPLEMENTS—Continued.

Year.	Lead.			Locks.		Meat cutters, Hale's, No. 12.	Nails, cut.	Pig iron, No. 1, anthracite, foundry.	Pocket knives.	
	Pig.	Pig.	Pipe.	Common mortise.	Common rim.				Redwood, iron-lined handle, 2½-inch, 1 blade.	Standard, black horn, brass G. S. handle, 3½-inch, pen, 2 blades.
1840.....	82.3	81.6	.....	.....	.....	.....	175.7	.....	.....	.....
1841.....	86.6	79.4	.....	.....	.....	.....	167.7	.....	.....	.....
1842.....	64.9	62.9	97.5	.....	.....	.....	151.8	112.5	.....	.....
1843.....	95.2	59.8	91.7	.....	.....	.....	135.8	.....	.....	.....
1844.....	62.8	63.1	91.7	.....	.....	.....	143.8	113.2	.....	.....
1845.....	64.9	67.5	91.7	.....	.....	.....	151.8	128.6	.....	.....
1846.....	75.8	68.5	.....	.....	.....	.....	143.8	122.5	.....	.....
1847.....	75.8	74.1	91.7	.....	.....	.....	143.8	133.0	.....	.....
1848.....	73.6	71.4	100.0	.....	.....	.....	135.8	116.5	.....	.....
1849.....	73.6	77.7	91.7	224.7	239.1	.....	127.8	100.0	.....	.....
1850.....	73.6	80.8	83.3	224.7	239.1	.....	118.5	91.8	.....	.....
1851.....	83.1	83.0	83.3	120.3	120.3	.....	104.8	94.0	132.1	128.0
1852.....	76.5	82.3	79.2	113.0	105.1	.....	100.0	99.4	128.6	128.0
1853.....	97.4	110.2	.....	105.1	105.1	.....	155.0	158.8	125.0	120.0
1854.....	116.9	114.5	116.7	114.5	129.0	.....	152.1	162.1	121.4	120.0
1855.....	108.2	111.1	116.7	87.0	87.0	.....	131.0	122.0	117.9	112.0
1856.....	121.2	120.4	129.2	90.6	90.6	.....	125.2	119.2	107.1	112.0
1857.....	116.9	109.7	116.7	90.6	90.6	.....	118.8	116.0	100.0	104.0
1858.....	.....	101.0	95.8	90.6	90.6	90.0	112.8	97.8	96.4	96.0
1859.....	101.3	101.0	104.2	90.6	90.6	90.0	123.3	102.8	96.4	96.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	95.2	96.8	104.2	100.0	100.0	100.0	87.9	89.0	100.0	108.0
1862.....	121.2	122.3	141.7	90.6	90.6	100.0	110.9	105.0	107.1	120.0
1863.....	138.5	150.2	166.7	92.8	83.3	100.0	163.9	154.9	125.0	144.0
1864.....	186.2	230.6	225.0	224.7	250.0	166.9	250.8	260.4	160.7	168.0
1865.....	259.7	177.6	333.3	224.7	195.7	166.9	226.2	202.7	160.7	168.0
1866.....	173.2	173.8	233.3	201.4	163.0	142.9	222.7	206.1	142.9	144.0
1867.....	.....	166.2	170.8	279.0	265.2	128.6	189.1	193.9	142.9	136.0
1868.....	.....	166.5	200.0	279.0	265.2	128.6	165.2	172.5	142.9	128.0
1869.....	.....	154.4	188.0	279.0	210.1	128.6	155.6	178.6	125.0	120.0
1870.....	128.5	132.8	133.3	168.8	144.9	128.6	140.6	146.2	107.1	112.0
1871.....	120.5	127.0	125.0	139.1	140.6	141.1	144.4	154.4	107.1	112.0
1872.....	108.9	129.1	150.0	163.0	169.6	141.1	174.4	214.9	100.0	108.0
1873.....	121.2	139.5	157.5	.....	.....	.....	156.5	187.9	100.0	108.0
1874.....	112.6	138.3	157.5	.....	.....	.....	127.5	133.0	96.4	100.0
1875.....	116.9	132.0	131.3	199.3	199.3	.....	109.3	112.1	92.9	100.0
1876.....	114.3	124.3	135.0	199.3	163.4	.....	95.2	97.8	89.3	96.0
1877.....	105.6	95.7	135.0	115.9	112.0	128.6	82.1	83.0	85.7	96.0
1878.....	75.7	63.3	112.5	96.4	102.2	109.4	73.8	77.5	78.5	92.0
1879.....	69.3	72.6	82.5	90.6	100.4	110.0	85.9	94.5	78.5	92.0
1880.....	97.4	91.0	116.3	118.5	116.8	107.0	117.6	125.3	71.4	88.0
1881.....	74.5	83.0	97.5	98.2	98.2	80.6	98.7	110.4	71.4	88.0
1882.....	89.2	85.2	112.5	113.0	114.7	66.9	110.9	113.2	71.4	84.0
1883.....	82.3	74.1	112.5	111.6	114.7	66.0	97.8	98.4	64.3	80.0
1884.....	66.7	63.3	90.0	90.6	85.5	61.0	76.4	87.4	64.3	80.0
1885.....	62.4	66.8	76.7	101.4	86.0	53.7	74.4	79.1	60.7	76.0
1886.....	80.5	79.6	80.0	78.6	75.0	51.6	72.5	82.2	60.7	76.0
1887.....	71.9	75.5	93.3	73.0	71.6	56.7	73.5	92.0	57.1	76.0
1888.....	84.9	75.2	100.0	60.1	54.4	49.1	64.9	83.0	57.1	72.0
1889.....	65.4	67.0	80.0	60.1	54.4	42.3	63.9	78.0	53.6	72.0
1890.....	66.7	73.6	80.0	60.1	54.4	42.3	63.9	80.9	53.6	72.0
1891.....	70.1	75.5	96.7	60.1	54.4	42.3	59.4	77.0	53.6	72.0

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

METALS AND IMPLEMENTS—Continued.

Year.	Pocket knives, standard.								
	Cocoa, brass G. S. handle, 3 $\frac{1}{4}$ -inch, 2 blades.	Cocoa, brass G. S. handle, 3 $\frac{1}{4}$ -inch, 2 blades.	Cocoa, iron lined handle, 2 $\frac{3}{4}$ -inch, 1 blade.	Cocoa, iron lined handle, 3 $\frac{1}{4}$ -inch, 1 blade.	Cocoa, iron lined handle, 3 $\frac{1}{4}$ -inch, 1 blade.	Cocoa, iron lined handle, 3 $\frac{1}{4}$ -inch, 2 blades.	Cocoa, iron lined handle, 3 $\frac{3}{4}$ -inch, 2 blades.	Cocoa, iron lined handle, 4-inch, 1 blade.	Ebony, brass G. S. handle, 3 $\frac{1}{4}$ -inch, 2 blades.
1840									
1841									
1842									
1843									
1844									
1845									
1846									
1847									
1848									
1849									
1850									
1851	126.3	131.8	132.1	133.3	133.3	126.7	133.3	133.3	126.3
1852	126.3	127.3	128.6	133.3	133.3	126.7	133.3	133.3	126.3
1853	121.1	122.7	125.0	126.7	126.7	120.0	127.8	125.0	121.1
1854	115.8	118.2	121.4	122.2	122.2	120.0	122.2	116.7	115.8
1855	110.5	113.6	117.9	115.6	111.1	113.3	116.7	116.7	110.5
1856	110.5	113.6	114.3	111.1	100.0	113.3	116.7	113.3	110.5
1857	105.3	109.1	107.1	100.0	88.9	106.7	111.1	108.3	105.3
1858	100.0	104.5	100.0	100.0	88.9	100.0	105.6	106.7	100.0
1859	100.0	100.0	100.0	100.0	88.9	100.0	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	110.5	109.1	107.1	111.1	100.0	113.3	111.1	116.7	110.5
1862	121.1	122.7	125.0	133.3	111.1	120.0	127.8	133.3	121.1
1863	136.8	140.9	142.9	155.6	144.4	133.3	144.4	150.0	136.8
1864	152.6	154.5	160.7	160.0	155.6	153.3	161.1	158.3	152.6
1865	152.6	154.5	160.7	160.0	155.6	153.3	161.1	158.3	152.6
1866	142.1	145.5	142.9	144.4	144.4	146.7	150.0	141.7	142.1
1867	136.8	136.4	142.9	133.3	133.3	140.0	144.4	133.3	136.8
1868	126.3	127.3	128.6	122.2	122.2	133.3	133.3	125.0	126.3
1869	110.5	113.6	114.3	111.1	111.1	113.3	116.7	116.7	110.5
1870	105.3	109.0	107.1	106.7	106.7	106.7	111.1	108.3	105.3
1871	100.0	104.5	107.1	100.0	100.0	100.0	105.6	100.0	100.0
1872	100.0	104.5	100.0	100.0	100.0	100.0	105.6	100.0	100.0
1873	105.3	109.0	107.1	111.1	111.1	106.7	111.1	108.3	105.3
1874	100.0	104.5	100.0	100.0	100.0	106.7	105.6	100.0	105.3
1875	100.0	100.0	92.9	100.0	100.0	100.0	100.0	91.7	100.0
1876	94.7	95.5	89.3	95.6	95.6	93.3	100.0	91.7	94.7
1877	89.5	90.9	85.7	93.3	93.3	86.7	94.4	88.3	89.5
1878	84.2	86.4	82.1	88.9	88.9	80.0	88.9	83.3	84.2
1879	78.9	81.8	78.6	80.0	80.0	73.3	83.3	80.0	78.9
1880	78.9	81.8	78.6	80.0	80.0	73.3	83.3	83.3	78.9
1881	78.9	86.4	78.6	80.0	80.0	66.7	88.9	83.3	73.7
1882	73.7	81.8	71.4	77.8	77.8	66.7	83.3	80.0	73.7
1883	73.7	81.8	71.4	75.6	75.6	66.7	83.3	80.0	73.7
1884	68.4	77.3	71.4	73.3	73.3	60.0	77.8	80.0	68.4
1885	68.4	77.3	67.9	71.1	71.1	60.0	77.8	75.0	68.4
1886	63.2	72.7	67.9	66.7	66.7	57.3	72.2	75.0	63.2
1887	63.2	68.2	67.9	66.7	66.7	57.3	66.7	75.0	63.2
1888	63.2	68.2	67.9	66.7	66.7	56.0	66.7	71.7	60.0
1889	60.0	63.6	64.3	62.2	62.2	53.3	64.4	70.0	57.9
1890	60.0	63.6	67.9	62.2	62.2	53.3	64.4	70.0	60.0
1891	60.0	68.2	67.9	66.7	66.7	57.3	70.0	75.0	61.1

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

METALS AND IMPLEMENTS—Continued.

Year.	Pocket knives, standard.								
	Ivory, brass G. S. handle, 3-inch, pen, 2 blades.	Ivory, brass G. S. handle, 3 $\frac{1}{2}$ -inch, pen, 2 blades.	Ivory, brass G. S. handle, 3 $\frac{1}{2}$ -inch, pen, 4 blades.	Ivory, brass G. S. handle, 3 $\frac{1}{2}$ -inch, pen, 3 blades.	Pearl, brass lined handle, 3 $\frac{1}{2}$ -inch, pen, 3 blades.	Pearl, silver lined handle, 3 $\frac{1}{2}$ -inch, pen, 3 blades.	Pearl, silver lined handle, 3 $\frac{1}{2}$ -inch, pen, 4 blades.	Redwood, iron lined handle, 4-inch pruner, 1 blade.	Redwood, iron lined handle, 5-inch pruner, 1 blade.
1840									
1841									
1842									
1843									
1844									
1845									
1846									
1847									
1848									
1849									
1850									
1851	136.4	122.7	131.6	135.3	128.6	137.5	133.3	171.4	156.5
1852	136.4	122.7	131.6	135.3	128.6	137.5	133.3	171.4	156.5
1853	131.8	118.2	126.3	129.4	121.4	125.0	126.7	161.3	147.8
1854	127.3	118.2	126.3	123.5	114.3	112.5	120.0	164.3	139.1
1855	122.7	113.6	121.1	117.6	114.3	100.0	120.0	157.1	130.4
1856	118.2	109.1	121.1	111.8	114.3	100.0	120.0	142.9	121.7
1857	109.1	104.5	113.2	105.9	107.1	93.8	116.7	128.6	113.0
1858	104.5	95.5	105.3	100.0	107.1	93.8	106.7	114.3	104.3
1859	100.0	100.0	100.0	100.0	100.0	100.0	100.0	107.1	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	109.1	109.1	105.3	105.9	100.0	106.3	100.0	107.1	108.7
1862	127.3	122.7	115.8	117.6	107.1	112.5	106.7	128.6	121.7
1863	145.5	136.4	136.8	141.2	128.6	131.3	126.7	150.0	139.1
1864	159.1	150.0	157.9	155.9	142.9	156.3	146.7	185.7	165.2
1865	159.1	150.0	157.9	155.9	142.9	156.3	146.7	185.7	165.2
1866	154.5	140.9	142.1	147.1	128.6	140.6	133.3	171.4	147.8
1867	145.5	127.3	134.2	141.2	128.6	137.5	133.3	171.4	139.1
1868	131.8	122.7	126.3	129.4	125.0	125.0	120.0	164.3	130.4
1869	118.2	113.6	115.8	117.6	125.0	125.0	120.0	157.1	126.1
1870	113.6	104.5	110.5	111.8	121.4	118.8	116.7	142.9	121.7
1871	109.1	100.0	105.3	105.9	117.9	118.8	116.7	135.7	113.0
1872	104.5	95.5	100.0	100.0	114.3	112.5	113.3	135.7	108.7
1873	113.6	104.5	110.5	111.8	114.3	112.5	113.3	128.6	108.7
1874	109.1	100.0	105.3	105.9	110.7	109.4	110.0	128.6	104.3
1875	104.5	95.5	100.0	100.0	110.7	109.4	110.0	128.6	104.3
1876	100.0	90.9	94.7	97.1	107.1	100.0	106.7	121.4	95.7
1877	95.5	86.4	92.1	94.1	107.1	100.0	106.7	121.4	95.7
1878	90.9	81.8	89.5	91.2	103.6	93.8	103.3	114.3	91.3
1879	86.4	77.3	81.6	88.2	103.6	87.5	100.0	107.1	91.3
1880	81.8	72.7	84.2	85.3	103.6	87.5	100.0	107.1	91.3
1881	81.8	72.7	84.2	85.3	100.0	87.5	100.0	100.0	87.0
1882	81.8	72.7	81.6	82.4	100.0	87.5	96.7	100.0	82.6
1883	77.3	68.2	78.9	82.4	92.9	87.5	96.7	100.0	78.3
1884	77.3	68.2	78.9	82.4	92.9	84.4	96.7	92.9	78.3
1885	72.7	63.6	73.7	76.5	85.7	81.3	86.7	92.9	73.9
1886	72.7	63.6	73.7	76.5	82.1	81.3	83.3	85.7	73.9
1887	68.2	60.0	71.1	73.5	78.6	79.7	83.3	85.7	73.9
1888	68.2	60.0	68.4	70.6	78.6	79.7	80.0	80.0	69.6
1889	65.5	58.2	65.8	67.6	75.0	75.0	76.7	80.0	67.8
1890	68.2	60.0	68.4	70.6	75.0	78.1	80.0	80.0	69.6
1891	72.7	61.8	73.7	76.5	78.6	81.3	80.0	85.7	73.9

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

METALS AND IMPLEMENTS—Continued.

Year.	Pocketknives, standard.					Quicksilver.	Rope.		
	Stag, brass G. S. handle, 4½-inch, 3 blades.	Stag, brass lined handle, 3½-inch, pen, 3 blades.	Stag, brass lined handle, 3½-inch, pen, 3 blades.	Stag, brass lined handle, 3½-inch, 4 blades.	Stag, brass lined handle, 4-inch, 4 blades.		Manila.	Tarred, American.	Tarred, Russian.
1840						205.1	127.3	.....	126.3
1841						200.0	133.3	.....	126.3
1842						201.0	133.3	.....	126.3
1843						210.3	109.1	.....	110.5
1844						229.7	106.1	.....	100.0
1845						225.6	109.1	81.1	94.7
1846						229.7	112.1	81.1	110.5
1847						254.4	115.2	81.1	110.5
1848						246.2	145.5	102.7	126.3
1849						220.5	127.3	102.7	121.1
1850						189.7	145.5	108.1	110.5
1851	120.0	136.4	157.1	152.9	150.0	213.3	151.5	91.9	110.5
1852	120.0	136.4	157.1	152.9	150.0	184.6	169.7	97.3	115.8
1853	116.7	127.3	142.9	141.2	140.0	133.3	163.6	97.3	115.8
1854	116.7	127.3	142.9	141.2	140.0	106.7	175.8	129.7	157.9
1855	116.7	118.2	128.6	129.4	130.0	109.7	181.8	129.7	168.4
1856	113.3	118.2	128.6	117.6	120.0	88.2	154.5	124.3	152.6
1857	106.7	109.1	114.3	105.9	110.0	95.4	145.5	129.7	136.8
1858	100.0	109.1	107.1	100.0	100.0	96.4	109.1	108.1	105.3
1859	100.0	100.0	100.0	100.0	100.0	105.1	103.0	102.7	105.3
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	107.1	105.9	105.0	113.3	97.0	.....	102.6
1862	100.0	109.1	114.3	117.6	120.0	96.4	121.2	118.9	121.1
1863	120.0	127.3	142.9	141.2	140.0	139.5	151.5	143.2	168.4
1864	140.0	150.0	171.4	176.5	170.0	184.6	197.0	164.9	.....
1865	140.0	150.0	171.4	176.5	170.0	256.4	284.8	200.0	.....
1866	133.3	136.4	157.1	158.8	150.0	256.4	290.9	205.4	.....
1867	126.7	136.4	157.1	158.8	150.0	174.4	266.7	200.0	194.7
1868	120.0	136.4	142.9	141.2	135.0	153.8	233.3	194.6	189.5
1869	120.0	136.4	142.9	129.4	125.0	a 107.7	242.4	173.0	168.4
1870	113.3	131.8	135.7	117.6	110.0	a 104.6	272.7	162.2	157.9
1871	106.7	127.3	135.7	105.9	120.0	a 184.6	218.2	151.2	147.4
1872	106.7	122.7	128.6	100.0	100.0	a 164.1	236.4	140.5	136.8
1873	100.0	122.7	128.6	94.1	90.0	a 189.7	212.1	124.3	131.6
1874	93.3	113.6	125.0	88.2	85.0	a 266.7	187.9	118.9	126.3
1875	80.0	113.6	125.0	88.2	85.0	a 295.4	169.7	118.9	126.3
1876	76.7	109.1	121.4	88.2	85.0	a 143.6	163.6	129.7	136.8
1877	76.7	109.1	121.4	82.4	80.0	a 108.7	169.7	118.9	126.3
1878	73.3	104.5	117.8	82.4	80.0	a 97.9	139.4	108.1	115.8
1879	70.0	100.0	114.3	82.4	80.0	87.2	124.2	97.3	115.8
1880	70.0	100.0	114.3	82.4	80.0	86.2	163.6	124.3	121.1
1881	70.0	95.5	110.7	79.4	75.0	79.0	151.5	135.1	121.1
1882	66.7	95.5	110.7	79.4	75.0	80.0	169.7	108.1	105.3
1883	66.7	90.9	103.6	79.4	75.0	70.8	187.9	108.1	105.3
1884	63.3	86.4	103.6	79.4	75.0	72.3	175.8	108.1	105.3
1885	60.0	81.8	100.0	76.5	72.5	89.7	163.6	108.1	105.3
1886	60.0	77.3	96.4	76.5	72.5	83.8	145.5	102.7	100.0
1887	60.0	72.7	92.9	73.5	70.0	104.6	145.5	97.3	94.7
1888	60.0	68.2	92.9	73.5	70.0	111.3	124.2	97.3	94.7
1889	60.0	68.2	89.3	73.5	67.5	116.7	169.7	97.3	94.7
1890	56.7	68.2	92.9	73.5	70.0	130.0	157.6	97.3	94.7
1891	56.7	68.2	96.4	79.4	75.0	136.2	133.3	97.3	94.7

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

METALS AND IMPLEMENTS—Concluded.

Year.	Saws.				Scythes.	Shovels, Ames No. 2, cast steel, D handle, square point, back strap.	Spelter, imported.	Wood screws, 1-inch, No. 10, flat head, iron.	Zinc, imported, sheet.
	Circular, 52-inch, Disston's.	Crosscut, 6-foot, Disston's.	Hand, common, Disston's.	Hand, standard, Disston's.					
1840							85.7	126.7	114.3
1841							133.3	118.7	114.3
1842							190.5	118.7	128.6
1843					125.0		161.9	110.9	128.6
1844					125.0		133.3	98.9	128.6
1845					125.0	100.0	95.2	110.9	100.0
1846					125.0	100.0	109.5	114.8	107.1
1847					125.0	100.0	95.2	87.1	110.7
1848					125.0	100.0	85.7	84.9	100.0
1849					125.0	100.0	61.9	77.2	92.9
1850					125.0	100.0	71.4	71.3	78.6
1851					125.0	100.0	66.7	71.3	82.1
1852					125.0	100.0	66.7	71.3	76.8
1853					125.0	100.0	92.9	87.1	103.6
1854					125.0	100.0	133.3	110.9	110.7
1855					125.0	100.0	102.4	110.9	92.9
1856					125.0	100.0	119.0	105.3	103.6
1857	100.0	100.0	100.0	100.0	100.0	100.0	157.1	105.3	121.4
1858	100.0	100.0	100.0	100.0	100.0	100.0	123.8	100.0	125.0
1859	100.0	100.0	100.0	100.0	100.0	100.0	109.5	100.0	110.7
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	102.8	100.0	100.0	100.0	100.0	90.5	116.7	92.9
1862	100.0	106.9	131.3	131.3	266.7	94.7	109.5	116.7	103.6
1863	96.5	106.9	131.3	131.3	266.7	102.6	142.9	135.0	146.4
1864	96.5	134.0	131.3	142.9	266.7		176.2	158.3	171.4
1865	136.8	134.0	131.3	169.2	241.7	184.2	285.7	215.7	285.7
1866	136.8	134.0	131.3	169.2	233.3	134.2	207.1	215.7	200.0
1867	136.8	140.9	131.3	169.2	225.0	141.6	119.0	215.7	185.7
1868	123.2	128.7	131.3	160.8	220.8	141.6	121.4	143.8	157.1
1869	92.4	128.7	121.9	152.6	208.3	141.6	a 119.0	131.8	178.6
1870	88.4	112.1	112.5	146.6	200.0	141.6	a 116.7	131.8	146.4
1871	77.4	112.1	90.6	122.1	208.3	118.5	a 114.3	128.5	121.4
1872	77.4	112.1	90.6	122.1	183.3	118.5	a 133.3	147.6	150.0
1873	82.9	112.1	90.6	125.5	175.0	128.3	a 126.2	213.0	142.9
1874	77.0	112.1	87.5	118.8	150.0	122.8	a 140.5	197.3	123.2
1875	71.1	112.1	87.5	118.8	146.3	122.8	a 133.3	192.3	132.1
1876	71.1	109.3	81.3	112.3	133.3	106.6	a 135.7	92.6	a 123.2
1877	71.1	109.3	75.0	105.6	126.0	92.3	a 126.2	61.3	a 117.9
1878	71.1	109.3	75.0	105.6	120.8	89.0	a 116.7	60.0	a 114.3
1879	69.3	87.4	75.0	105.6	116.7	82.5	a 111.9	57.0	a 114.3
1880	69.3	87.4	75.0	105.6	108.3	92.6	121.4	82.5	114.3
1881	59.2	65.2	75.0	105.6	113.8	88.7	100.0	71.3	107.1
1882	59.2	65.2	75.0	105.6	114.2	86.2	95.2	99.8	98.2
1883	59.2	65.2	75.0	105.6	90.0	83.9	95.2	97.1	92.9
1884	59.2	65.2	75.0	102.9	90.0	81.4	95.2	59.3	82.1
1885	52.8	65.2	71.9	97.4	83.3	78.9	90.5	43.9	
1886	52.8	65.2	68.8	97.4	83.3	72.7	92.9	49.4	91.1
1887	52.8	65.2	62.5	91.4	75.0	72.7	90.5	56.8	
1888	52.8	65.2	56.3	91.4	75.0	72.7	114.3	79.7	
1889	52.8	65.2	46.9	91.4	67.5	72.7	109.5	79.7	
1890	52.8	65.2	37.5	91.4	66.7	72.7	123.8	82.1	
1891	52.8	65.2	37.5	97.4	60.0	72.7	133.3	92.2	

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

LUMBER AND BUILDING MATERIALS.

Year.	Brick, common domestic building.	Carbonate of lead, in oil.	Cement, Rosendale.	Chestnut, lumber, in the log, not sawed.	Doors, pine, unmoulded, 2 ft. 4 in. x 6 ft. 8 in., 1½ inches thick.	Hemlock, boards, first quality, 1-inch, not planed.	Hemlock, lumber, in the log, not sawed.	Lime, Rockland.	Maple, boards, first quality, 1-inch, rough.	Oak, boards, white, plain, first quality, 1-inch, rough.	Oxide of zinc, American, dry.	Pine, boards, white, clear, 1-inch, not planed.	Pine, boards, white, clear, extra, 1-inch, not planed.
1840 ..	.....	97.9	.....	.....	109.4	128.6	.....	187.5	.....	.....	.....	100.0	100.0
1841 ..	.....	96.3	.....	.....	109.4	128.6	.....	186.7	.....	.....	.....	103.2	100.0
1842 ..	.....	84.4	.....	.....	115.6	128.6	.....	133.3	.....	.....	.....	106.4	100.0
1843 ..	.....	81.9	.....	.....	109.4	128.6	.....	141.7	.....	.....	.....	77.6	100.0
1844 ..	.....	83.1	.....	.....	109.4	128.6	.....	125.0	.....	.....	.....	87.2	100.0
1845 ..	.....	87.4	.....	.....	109.4	128.6	.....	133.3	.....	.....	.....	93.6	100.0
1846 ..	.....	82.5	.....	.....	169.4	132.1	.....	158.3	.....	.....	.....	96.8	100.0
1847 ..	.....	81.3	.....	.....	100.0	128.6	.....	125.0	.....	.....	.....	100.0	100.0
1848 ..	.....	77.8	137.0	.....	103.1	128.6	.....	116.7	.....	.....	.....	93.6	100.0
1849 ..	85.7	80.3	135.0	.....	169.4	128.6	.....	116.7	.....	.....	.....	100.0	100.0
1850 ..	97.1	84.7	135.0	.....	100.0	135.7	.....	113.3	.....	.....	.....	106.4	100.0
1851 ..	102.9	83.5	125.0	.....	103.1	128.6	.....	133.3	.....	.....	.....	96.8	100.0
1852 ..	102.9	80.7	125.0	.....	109.4	128.6	.....	141.7	.....	.....	.....	100.0	100.0
1853 ..	102.9	99.8	125.0	.....	109.4	128.6	.....	133.3	.....	.....	.....	112.8	100.0
1854 ..	86.9	109.2	137.0	.....	109.4	135.7	.....	183.3	.....	.....	155.6	116.0	100.0
1855 ..	102.9	107.8	100.0	.....	93.8	103.6	.....	.....	88.9	90.9	133.3	116.0	100.0
1856 ..	91.4	114.5	100.0	.....	109.4	100.0	.....	141.7	88.9	100.0	144.4	132.0	100.0
1857 ..	102.9	108.4	120.0	.....	109.4	103.6	.....	133.3	94.4	100.0	116.7	138.4	102.1
1858 ..	85.7	99.0	100.0	100.0	100.0	92.9	100.0	133.3	94.4	100.0	111.1	132.0	100.0
1859 ..	114.3	100.0	80.0	100.0	86.3	92.9	100.0	108.3	100.0	100.0	100.0	109.6	108.3
1860 ..	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861 ..	80.0	98.2	90.0	108.3	112.5	114.3	133.3	133.3	111.1	181.8	100.0	106.4	100.0
1862 ..	91.4	105.2	90.0	133.3	125.0	128.6	183.3	91.7	111.1	272.7	106.0	106.4	108.3
1863 ..	137.1	132.1	120.0	133.3	117.2	185.7	200.0	166.7	133.3	272.7	144.4	132.0	131.3
1864 ..	160.0	202.8	150.0	133.3	125.0	185.7	260.0	166.7	133.3	272.7	188.9	196.0	166.7
1865 ..	171.4	186.6	150.0	133.3	109.4	200.0	200.0	200.0	133.3	272.7	177.8	196.0	166.7
1866 ..	234.3	199.0	175.0	133.3	140.6	171.4	200.0	250.0	133.3	272.7	222.2	228.0	177.1
1867 ..	222.9	175.0	150.0	100.0	125.0	185.7	100.0	308.3	111.1	272.7	211.1	180.0	187.5
1868 ..	257.1	164.8	175.0	100.0	121.9	171.4	100.0	291.7	111.1	272.7	200.0	196.0	177.1
1869 ..	182.9	161.7	200.0	100.0	125.0	171.4	100.0	208.3	111.1	272.7	177.8	180.0	166.7
1870 ..	171.4	132.8	190.0	100.0	121.9	171.4	100.0	208.3	111.1	290.9	144.4	160.8	166.7
1871 ..	188.6	134.0	175.0	100.0	125.0	221.4	133.3	183.3	111.1	290.9	144.4	180.0	166.7
1872 ..	194.3	134.2	160.0	100.0	140.6	200.0	133.3	225.0	111.1	300.0	177.8	186.4	187.5
1873 ..	171.4	138.9	175.0	103.3	125.0	221.4	133.3	266.7	111.1	300.0	188.9	189.6	175.0
1874 ..	171.4	132.6	140.0	104.2	132.8	192.9	133.3	166.7	111.1	300.0	177.8	180.0	166.7
1875 ..	142.9	127.5	120.0	102.1	125.0	178.6	133.3	208.3	111.1	300.0	155.6	164.0	158.3
1876 ..	114.3	121.2	120.0	100.0	125.0	150.0	133.3	141.7	111.1	300.0	122.2	141.6	166.7
1877 ..	102.9	104.9	100.0	100.0	125.0	125.0	133.3	133.3	116.7	300.0	133.3	141.6	162.5
1878 ..	100.0	90.6	90.0	100.0	117.2	121.4	133.3	108.3	127.8	300.0	105.6	132.0	162.5
1879 ..	82.9	80.2	100.0	100.0	125.0	125.0	133.3	150.0	133.3	300.0	72.2	164.0	145.8
1880 ..	125.7	94.8	110.0	.....	117.2	128.6	133.3	150.0	133.3	300.0	122.2	164.0	154.2
1881 ..	.....	82.1	120.0	100.0	125.0	128.6	133.3	166.7	133.3	300.0	94.4	170.4	145.8
1882 ..	148.6	82.3	110.0	100.0	125.0	135.7	133.3	150.0	127.8	300.0	105.6	170.4	158.3
1883 ..	151.4	73.9	105.0	.....	109.4	132.1	125.0	166.7	122.2	300.0	88.9	176.8	162.5
1884 ..	137.1	67.5	100.0	.....	101.6	128.6	127.5	158.3	122.2	300.0	83.3	176.8	162.5
1885 ..	142.9	66.3	90.0	100.0	93.8	128.6	133.3	166.7	122.2	300.0	77.8	170.4	166.7
1886 ..	165.7	78.4	90.0	.....	109.4	130.4	133.3	166.7	122.2	309.1	88.9	180.0	162.5
1887 ..	160.0	69.7	95.0	.....	109.4	135.7	133.3	125.0	122.2	318.2	94.4	170.4	177.1
1888 ..	125.7	66.4	90.0	100.0	101.6	139.3	133.3	116.7	122.2	318.2	100.0	164.0	177.1
1889 ..	142.9	73.0	85.0	.....	93.8	146.4	133.3	141.7	122.2	318.2	100.0	164.0	177.1
1890 ..	131.4	77.6	80.0	100.0	85.9	150.0	133.3	150.0	122.2	318.2	94.4	164.0	187.5
1891 ..	117.1	86.2	85.0	100.0	78.1	146.4	133.3	150.0	122.2	318.2	94.4	160.0	183.3

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

LUMBER AND BUILDING MATERIALS—Continued.

Year.	Pine.						Plate glass, polished.					
	Boards, white, clear, extra, 1-inch, not planed.	Boards, white, common, 1-inch, not planed.	Boards, white, common, 1-inch, not planed.	Boards, white, culls, 1-inch, not planed.	Flooring, white, extra, 1-inch, not planed.	Lumber, in the log, not sawed.	Unsilvered, area 1 to 3 square feet.	Unsilvered, area 3 to 5 square feet.	Unsilvered, area 5 to 10 square feet.	Unsilvered, area 10 to 40 square feet.	Unsilvered, area 40 to 80 square feet.	Unsilvered, area 80 to 100 square feet.
1840.....		91.3			96.4							
1841.....		91.3			96.4							
1842.....		87.0			98.2							
1843.....		91.3			96.4							
1844.....		91.3			96.4							
1845.....		91.3			100.0							
1846.....		95.7			96.4							
1847.....		95.7			100.0							
1848.....		95.7			100.0							
1849.....		95.7			100.0							
1850.....		91.3			100.0							
1851.....		95.7			100.0							
1852.....		95.7			100.0							
1853.....		95.7			100.0							
1854.....		100.0			100.0							
1855.....		95.7			114.3							
1856.....		87.0			107.1							
1857.....		95.7			110.7		134.7	105.9	100.0	100.0	108.3	100.0
1858.....		95.7			114.3	100.0	163.3	117.6	121.8	100.0	108.3	100.0
1859.....		95.7			100.0	100.0						
1860.....	100.0	100.0	100.0	100.0	100.0	100.0						
1861.....	98.8	104.3	102.7	103.7	107.1	125.0	100.0	100.0	100.0	100.0	100.0	100.0
1862.....	103.5	117.4	108.1	111.1	114.3	187.5						
1863.....	117.6	156.5	162.2	163.0	150.0	200.0	167.3	173.5	166.7	166.7	166.7	166.7
1864.....	141.2	173.9	210.8	222.2	157.1	200.0	165.3	172.8	208.3	208.3	208.3	208.3
1865.....	117.6	173.9	173.0	192.6	157.1	200.0	159.2	164.7	200.0	200.0	200.0	200.0
1866.....	235.3	173.9	216.2	207.4	157.1	200.0	149.0	155.9	150.0	150.0	150.0	150.0
1867.....	235.3	147.8	216.2	222.2	142.9	125.0	142.9	147.1	141.0	141.2	141.7	141.7
1868.....	188.2	141.3	216.2	207.4	146.4	125.0	142.9	147.1	141.0	141.2	141.7	141.7
1869.....	188.2	147.8	205.4	192.6	144.6	125.0	142.9	147.1	205.1	141.2	141.7	141.7
1870.....	211.8	147.8	194.6	192.6	142.9	125.0	100.0	102.9	100.0	100.0	100.0	100.0
1871.....	188.2	169.6	189.2	192.6	142.9	143.1	91.8	94.1	91.0	91.2	91.7	91.7
1872.....	235.3	173.9	237.8	237.0	150.0	150.0	102.0	105.9	102.6	102.9	102.8	102.8
1873.....	225.9	187.0	227.0	207.4	150.0	150.0	153.1	123.5	160.3	176.5	147.2	146.1
1874.....	202.4	160.9	183.8	177.8	142.9	150.0	159.2	117.6	152.6	134.3	117.4	111.1
1875.....	188.2	130.4	151.4	133.3	128.6	150.0	124.5	101.5	146.2	154.9	125.7	121.7
1876.....	178.8	126.1	151.4	133.3	128.6	150.0	128.6	111.6	129.5	131.4	97.9	84.4
1877.....	164.7	119.6	145.9	133.3	114.3	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1878.....	131.8	121.7	156.8	148.1	114.3	150.0	85.7	76.5	92.3	94.1	70.1	60.0
1879.....	141.2	121.7	140.5	133.3	117.9	150.0	85.7	77.9	87.2	88.2	66.7	56.7
1880.....	197.6	130.4	173.6	177.8	116.1	150.0	102.0	89.7	102.6	103.9	77.8	67.2
1881.....	211.8	145.7	183.8	185.2	135.7	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1882.....	221.2	154.3	194.6	192.6	142.9	150.0	89.8	77.9	89.7	91.2	68.1	58.9
1883.....	216.5	137.0	194.6	192.6	121.4	146.9	91.8	79.4	97.4	99.0	73.6	63.3
1884.....	216.5	145.7	183.8	177.8	125.0	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1885.....	211.8	150.0	183.8	170.4	126.8	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1886.....	207.1	147.8	183.8	163.0	128.6	150.0	91.8	82.4	97.4	99.0	73.6	63.3
1887.....	207.1	156.5	183.8	177.8	128.6	150.0	91.8	82.4	97.4	99.0	73.6	63.3
1888.....	202.4	147.8	183.8	185.2	121.4	150.0	91.8	82.4	97.4	99.0	73.6	63.3
1889.....	197.6	147.8	173.0	192.6	128.6	150.0	81.6	70.6	82.1	83.3	61.8	53.9
1890.....	202.4	134.8	173.0	185.2	128.6	150.0	89.8	77.9	89.7	91.2	68.1	58.9
1891.....	207.1	130.4	173.0	177.8	128.6	150.0	87.8	76.5	88.5	89.2	66.7	57.2

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

LUMBER AND BUILDING MATERIALS—Concluded.

Year.	Putty.	Shingles, pine.				Spruce, boards, 1-inch.	Tar, Wilmington.	Turpentine.	Window glass.			
		16 inches.	16 inches, XXX.	16 inches, extra XXX, cut.	16 inches, extra XXX, sawed.				American, 10 x 14, firsts, single.	American, 10 x 14, thirds, single.	French, 10 x 14, firsts, single.	French, 10 x 14, thirds, single.
1840.....	133.3	131.2	114.3	100.0	.....	106.3	60.0	62.5	140.6	.....	.....	.....
1841.....	133.3	133.9	114.3	100.0	.....	118.8	65.0	71.3	140.6	.....	.....	.....
1842.....	133.3	139.3	120.0	100.0	.....	118.8	60.0	80.0	135.4	.....	.....	.....
1843.....	133.3	139.3	114.3	100.0	.....	110.4	60.0	77.5	125.0	.....	.....	.....
1844.....	116.7	128.1	114.3	100.0	.....	110.4	57.6	75.0	125.0	.....	.....	.....
1845.....	116.7	128.1	114.3	100.0	.....	110.4	75.0	93.8	125.0	.....	.....	.....
1846.....	116.7	116.9	108.6	95.0	.....	110.4	65.0	70.0	145.8	.....	.....	.....
1847.....	116.7	178.7	108.6	97.5	.....	110.4	90.0	90.0	109.4	.....	.....	.....
1848.....	108.3	178.7	108.6	100.0	.....	93.8	70.0	83.8	94.8	.....	.....	.....
1849.....	108.3	178.7	114.3	100.0	.....	93.8	70.0	80.0	94.8	.....	61.8	77.9
1850.....	104.2	178.7	114.3	100.0	.....	93.8	60.0	77.5	87.5	.....	69.8	93.8
1851.....	100.0	77.5	114.3	100.0	.....	85.4	70.0	83.8	87.5	.....	74.7	82.1
1852.....	91.7	83.1	114.3	105.0	.....	85.4	80.0	110.0	87.5	88.2	.....	78.2
1853.....	100.0	92.6	120.0	100.0	.....	93.8	80.0	120.0	85.9	85.8	.....	78.2
1854.....	108.3	104.0	114.3	100.0	.....	97.9	160.0	120.0	85.9	.....	75.7	97.7
1855.....	133.3	105.6	114.3	107.5	.....	79.2	100.0	100.0	85.9	.....	.....	97.7
1856.....	133.3	105.6	108.6	100.0	100.0	85.4	55.0	92.5	85.9	88.2	103.1	95.4
1857.....	108.3	100.0	114.3	100.0	95.0	83.3	70.0	117.5	91.7	95.6	93.8	101.6
1858.....	104.2	.....	114.3	100.0	95.0	100.0	70.0	108.8	97.4	88.2	85.9	93.8
1859.....	100.0	.....	121.1	100.0	95.0	87.5	81.2	112.5	91.7	88.2	97.7	93.8
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	116.7	71.9	120.0	100.0	100.0	87.5	120.0	205.0	100.0	103.4	96.1	97.7
1862.....	133.3	.....	137.1	135.0	125.0	79.2	640.0	325.0	100.0	159.3	96.1	156.3
1863.....	150.0	.....	178.6	142.5	137.5	131.3	.....	895.0	153.1	159.3	132.8	156.3
1864.....	166.7	.....	214.3	155.0	150.0	202.1	a720.0	900.0	208.3	245.0	223.4	224.7
1865.....	183.3	83.1	221.4	205.0	200.0	168.8	a260.0	337.5	177.6	161.7	154.7	150.5
1866.....	200.0	112.4	221.4	208.0	200.0	202.1	120.0	202.5	226.0	220.5	180.5	191.5
1867.....	216.7	.....	242.9	212.5	320.0	158.3	170.0	147.5	177.6	196.0	141.8	177.8
1868.....	216.7	.....	288.6	208.0	287.5	175.0	180.0	110.0	140.6	165.7	140.6	141.5
1869.....	183.3	.....	257.1	208.0	250.0	175.0	125.0	105.0	154.7	165.7	126.6	141.5
1870.....	150.0	134.8	235.7	210.0	237.5	175.0	80.0	95.0	108.3	.....	103.4	123.1
1871.....	116.7	134.8	228.6	210.0	225.0	170.8	140.0	117.5	123.8	.....	106.9	146.6
1872.....	100.0	134.8	217.1	222.0	212.5	143.8	130.0	117.5	202.5	.....	160.3	146.6
1873.....	91.7	.....	221.4	222.0	212.5	152.1	170.0	112.5	179.2	.....	128.1	172.0
1874.....	91.7	.....	214.3	225.5	200.0	145.8	110.0	90.0	179.2	.....	109.5	136.8
1875.....	91.7	105.6	210.0	173.5	187.5	139.6	95.0	82.5	129.4	.....	129.5	146.6
1876.....	91.7	88.8	202.9	173.5	175.0	202.1	80.0	77.5	213.8	122.5	112.5	141.8
1877.....	108.3	.....	177.1	173.5	162.5	172.9	100.0	77.5	127.5	110.3	100.9	107.5
1878.....	83.3	.....	142.9	173.5	145.0	108.3	90.0	72.5	95.6	98.0	95.6	111.4
1879.....	83.3	.....	135.7	156.0	137.5	143.8	90.0	68.8	91.6	98.0	73.8	87.9
1880.....	108.3	.....	135.7	174.0	162.5	125.0	80.0	70.0	138.8	154.4	100.0	111.4
1881.....	58.3	.....	164.3	174.0	162.5	143.8	120.0	107.5	115.6	.....	103.5	97.7
1882.....	83.3	.....	214.3	187.5	175.0	218.8	100.0	115.0	131.9	.....	103.5	105.5
1883.....	75.0	.....	178.6	174.0	180.0	218.8	90.0	95.0	103.1	.....	108.3	117.2
1884.....	66.7	118.0	168.6	174.0	160.0	135.4	80.0	80.0	173.4	.....	107.6	99.7
1885.....	66.7	94.4	157.1	146.0	132.5	131.3	90.0	92.5	164.1	.....	141.0	86.0
1886.....	66.7	.....	164.3	146.0	142.5	131.3	80.0	82.5	164.1	.....	71.9	93.8
1887.....	66.7	100.0	175.7	174.0	170.0	131.3	76.0	77.5	86.6	.....	73.8	75.4
1888.....	66.7	109.0	182.9	167.0	157.5	133.3	80.0	87.5	91.9	.....	84.1	81.3
1889.....	66.7	.....	180.0	152.5	147.5	131.3	96.0	102.5	78.8	.....	62.3	78.2
1890.....	66.7	.....	174.3	145.5	150.0	131.3	80.0	106.3	78.8	.....	70.2	81.3
1891.....	66.7	.....	165.7	145.5	150.0	131.3	80.0	93.8	83.1	.....	78.0	78.2

a Imported.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

DRUGS AND CHEMICALS.

Year.	Alcohol.	Alum, lump, crystal.	Bichromate of potash.	Blue vitriol.	Brimstone, crude.	Calomel.	Copperas.	Flaxseed.	Glycerine, refined.
1840	101.9	222.2	.....	89.5	122.2	198.5	225.0	87.6	.....
1841	81.5	177.8	.....	89.5	122.2	200.4	212.5	100.8	.....
1842	79.6	155.6	.....	89.5	88.9	216.9	150.0	118.3	.....
1843	88.9	133.3	.....	84.2	76.7	200.4	150.0	78.9	.....
1844	111.1	133.3	.....	84.2	57.8	198.5	150.0	78.9	.....
1845	98.1	144.4	95.2	84.2	55.6	187.5	175.0	100.8	.....
1846	92.6	133.3	85.7	78.9	51.1	176.5	150.0	92.0	.....
1847	92.6	100.0	81.0	78.9	57.8	169.1	112.5	76.7	.....
1848	100.0	100.0	76.2	84.2	71.1	169.1	100.0	79.8	.....
1849	88.9	105.6	81.0	81.6	60.0	176.5	100.0	73.6	.....
1850	101.9	133.3	109.5	73.7	88.9	176.5	87.5	92.0	.....
1851	98.1	116.7	81.0	76.3	88.9	169.1	100.0	107.4	.....
1852	83.3	88.9	78.6	76.3	116.7	161.8	100.0	93.9	.....
1853	92.6	94.4	70.2	100.0	83.3	147.1	125.0	89.0	.....
1854	107.4	94.4	72.6	115.8	77.8	132.4	125.0	89.0	.....
1855	155.6	100.0	71.4	110.5	64.4	111.8	125.0	122.7	406.3
1856	148.1	116.7	81.0	105.3	71.1	95.6	125.0	128.8	437.5
1857	107.4	105.6	81.0	110.5	82.2	98.5	112.5	113.5	406.3
1858	85.2	94.4	119.0	113.2	166.7	100.0	100.0	73.6	330.0
1859	92.6	116.7	85.7	100.0	100.0	100.0	100.0	102.5	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	74.1	94.4	100.0	94.7	133.3	100.0	125.0	89.0	90.0
1862	74.1	94.4	100.0	94.7	133.3	98.5	150.0	110.4	98.8
1863	142.6	155.6	104.8	121.1	111.1	125.0	200.0	171.8	100.0
1864	342.6	161.1	114.3	142.1	127.8	142.6	175.0	184.0	100.0
1865	814.8	255.6	142.9	192.1	222.2	97.1	237.5	230.1	125.0
1866	824.1	200.0	114.3	157.9	100.0	191.2	200.0	177.9	112.5
1867	861.1	144.4	95.2	126.3	88.9	147.1	200.0	159.5	117.5
1868	787.0	161.1	90.5	102.6	86.7	136.8	150.0	141.1	100.0
1869	361.1	150.0	82.1	102.6	111.1	140.4	200.0	153.4	87.5
1870	351.9	144.4	70.2	131.6	104.4	149.3	187.5	138.0	63.8
1871	342.6	138.9	60.1	92.1	100.0	172.8	175.0	131.9	63.8
1872	342.6	144.4	104.8	105.3	75.6	165.4	150.0	116.6	71.3
1873	361.1	144.4	100.0	118.4	100.0	191.9	125.0	125.8	67.5
1874	351.9	155.6	81.0	110.5	75.6	255.2	125.0	147.2	52.5
1875	359.3	122.2	83.3	100.0	80.0	191.7	125.0	141.1	40.0
1876	398.1	116.7	79.8	89.5	77.2	130.9	100.0	98.2	43.1
1877	392.6	116.7	69.0	76.3	64.4	104.0	125.0	130.1	51.9
1878	381.5	100.0	58.3	78.9	61.1	100.7	87.5	131.9	42.5
1879	370.4	100.0	66.7	68.4	55.6	85.3	87.5	85.9	39.4
1880	392.6	94.4	76.2	78.9	61.1	81.3	87.5	122.7	48.1
1881	396.3	94.4	71.4	76.3	71.1	87.5	87.5	71.2	82.5
1882	416.7	94.4	73.8	68.4	74.4	87.1	62.5	77.3	89.4
1883	416.7	94.4	73.8	61.8	57.8	83.1	87.5	73.6	64.4
1884	401.9	94.4	61.9	50.0	55.6	85.7	87.5	86.5	51.3
1885	401.9	83.3	50.0	44.7	51.1	88.2	75.0	84.0	39.1
1886	394.4	77.8	47.0	47.4	50.0	90.1	87.5	68.7	38.4
1887	401.9	77.8	45.2	43.4	45.0	95.6	75.0	58.3	58.8
1888	370.4	77.8	50.0	50.0	44.4	104.8	62.5	87.1	48.4
1889	388.9	77.8	54.8	61.8	48.9	106.6	50.0	100.0	51.9
1890	366.7	77.8	50.0	54.0	43.3	121.7	75.0	82.8	46.3
1891	411.1	77.8	47.6	47.4	57.8	119.1	75.0	69.3	38.8

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

DRUGS AND CHEMICALS—Concluded.

Year.	Linseed oil.	Mercury.	Muriatic acid.	Opium.	Quinine.	Soda ash.	Sugar of lead.		Sulphuric acid.
							Brown.	White.	
1840	98.2	209.1	133.3	34.8	295.5	136.8	.....	123.9	109.1
1841	126.3	178.2	133.3	52.2	261.8	147.4	.....	117.4	118.2
1842	163.2	181.8	133.3	41.7	204.5	105.3	.....	117.4	127.3
1843	133.3	196.4	133.3	47.8	154.5	147.4	.....	87.0	109.1
1844	131.6	203.6	116.7	49.6	181.8	121.1	.....	87.0	90.9
1845	117.5	200.0	116.7	52.2	227.3	121.1	.....	69.6	90.9
1846	114.0	203.6	116.7	121.7	222.7	131.6	.....	121.7	90.9
1847	96.5	218.2	108.3	73.9	209.1	147.4	.....	87.0	90.9
1848	103.5	214.5	108.3	73.9	222.7	131.6	.....	82.6	90.9
1849	89.5	196.4	108.3	60.9	272.7	115.8	.....	73.9	90.9
1850	128.1	163.6	100.0	78.3	340.9	121.1	.....	91.3	90.9
1851	157.9	196.4	100.0	69.6	354.5	105.3	.....	100.0	90.9
1852	108.8	172.7	100.0	76.2	272.7	89.5	.....	78.3	90.9
1853	119.3	118.2	100.0	68.7	245.5	105.3	83.3	87.0	90.9
1854	112.3	105.5	100.0	69.6	254.5	110.5	120.0	104.3	90.9
1855	140.4	100.0	100.0	98.3	236.4	84.2	103.3	95.7	100.0
1856	157.9	81.8	100.0	82.6	245.5	105.3	126.7	130.4	100.0
1857	140.4	81.8	100.0	87.0	181.8	110.5	160.0	113.0	90.9
1858	94.7	90.9	100.0	82.6	127.3	100.0	120.0	100.0	90.9
1859	112.3	87.3	100.0	108.7	127.3	115.8	113.3	121.7	90.9
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	87.7	100.0	100.0	82.6	154.5	89.5	100.0	100.0	109.1
1862	149.1	81.8	116.7	87.0	227.3	121.1	126.7	104.3	127.3
1863	219.3	127.3	100.0	146.1	254.5	126.3	166.7	156.5	109.1
1864	250.9	150.9	133.3	169.6	231.8	152.6	186.7	191.3	109.1
1865	271.9	250.9	150.0	121.7	295.5	273.7	533.3	413.0	172.7
1866	249.1	100.0	166.7	151.3	231.8	273.7	320.0	391.3	181.8
1867	219.3	172.7	133.3	117.4	209.1	121.1	400.0	278.3	.....
1868	178.9	141.8	100.0	107.8	181.8	94.7	333.3	217.4	90.9
1869	171.9	138.2	83.3	247.8	200.0	94.7	226.7	217.4	127.3
1870	159.6	127.3	83.3	173.9	200.0	94.7	160.0	243.5	109.1
1871	143.9	163.6	66.7	128.3	209.1	100.0	160.0	187.0	72.7
1872	129.8	145.5	58.3	87.0	227.3	121.1	146.7	165.2	54.5
1873	157.9	163.6	58.3	124.3	227.3	121.1	166.7	139.1	54.5
1874	152.6	234.5	58.3	113.0	227.3	105.3	166.7	139.1	90.9
1875	136.8	290.9	66.7	153.9	204.5	94.7	166.7	165.2	72.7
1876	110.5	127.3	66.7	106.4	181.8	84.2	166.7	156.5	59.1
1877	114.0	96.4	66.7	113.0	272.7	84.2	100.0	160.9	63.6
1878	110.5	90.9	70.8	85.2	272.7	73.7	100.0	163.0	45.5
1879	107.0	78.2	50.0	80.9	327.3	63.2	110.0	165.2	54.5
1880	149.1	78.2	83.3	82.6	236.4	84.2	123.3	119.6	36.4
1881	96.5	74.5	58.3	114.8	236.4	63.2	133.3	130.4	40.9
1882	108.8	77.3	50.0	73.9	222.7	68.4	113.3	137.0	40.9
1883	93.0	70.9	50.0	67.8	163.6	68.4	93.3	104.3	40.9
1884	100.0	66.4	58.3	67.0	163.6	57.9	80.0	113.0	40.9
1885	89.5	87.3	54.2	67.0	89.1	57.9	70.0	91.3	40.9
1886	77.2	77.3	50.0	57.4	66.4	57.9	86.7	100.0	36.4
1887	77.2	96.4	45.8	55.7	48.2	52.6	86.7	104.3	36.4
1888	96.5	118.2	45.8	67.8	44.5	52.6	86.7	104.3	36.4
1889	103.5	110.9	45.8	53.9	38.2	52.6	103.3	113.0	36.4
1890	105.3	123.6	41.7	59.1	31.8	63.2	100.0	104.3	36.4
1891	107.0	127.3	29.2	39.1	27.3	68.4	80.0	104.3	27.3

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Continued.*

HOUSE FURNISHING GOODS.

Year.	Furniture.			Glassware.					Pails, wooden.			Tubs, wooden.	Tubs, wooden.	Tubs, wooden.	Tubs, wooden.
	Chairs, bedroom, maple, canesat.	Chairs, kitchen, common spindle.	Tables, kitchen, pine, 3½-foot.	Bowls, 8-inch.	Goblets, common.	Pitchers, ½-gallon.	Sets, finished.	Tumblers, ½-pint.	2-hoop.	2-hoop.	3-hoop.				
1840	.....	.....	.....	.....	.....	.....	.....	.....	160.7	.....	.....	72.0	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	160.7	.....	.....	72.0	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	160.7	.....	.....	72.0	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	128.6	.....	.....	72.0	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	128.6	.....	.....	76.0	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	128.6	.....	.....	76.0	.....	.....	.....
1846	.....	100.0	.....	.....	.....	.....	.....	.....	142.9	.....	.....	76.0	125.0	.....	.....
1847	.....	100.0	.....	.....	.....	.....	.....	.....	135.7	133.3	125.0	120.0	122.5	110.3	115.6
1848	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	140.7	134.4	110.0	118.8	122.1	122.2
1849	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	129.6	125.0	110.0	131.3	120.7	122.2
1850	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	140.7	134.4	120.0	125.0	131.0	128.9
1851	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	129.6	125.0	124.0	125.0	113.8	117.8
1852	100.0	100.0	100.0	.....	.....	.....	.....	.....	125.0	111.1	125.0	124.0	125.0	100.0	108.9
1853	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	125.9	125.0	130.0	131.3	113.8	117.8
1854	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	140.7	128.1	130.0	137.5	115.2	117.8
1855	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	140.7	128.1	130.0	137.5	115.2	117.8
1856	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	137.0	128.1	108.0	115.0	110.3	113.3
1857	100.0	100.0	100.0	.....	.....	.....	.....	.....	128.6	137.0	125.0	124.0	125.0	112.4	115.6
1858	100.0	100.0	100.0	.....	.....	.....	.....	.....	114.3	114.8	115.6	112.0	112.5	106.9	111.1
1859	100.0	100.0	100.0	.....	.....	.....	.....	.....	107.1	107.4	106.3	104.0	105.0	100.0	102.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	80.0	100.0	100.0	100.0	100.0	111.3	100.0	100.0	98.2	100.0	100.0	90.0	93.8	89.7	88.9
1862	80.0	100.0	100.0	.....	.....	.....	.....	.....	92.9	92.6	93.8	90.0	83.8	81.4	80.0
1863	85.0	100.0	100.0	145.0	131.3	112.5	119.5	158.3	121.4	122.2	125.0	140.0	137.5	124.1	124.4
1864	125.0	122.2	112.5	205.0	201.0	170.4	203.3	225.0	160.7	163.0	156.3	170.0	162.5	148.3	144.4
1865	180.0	166.7	162.5	200.0	206.3	166.3	206.8	233.3	178.6	183.0	178.1	180.0	150.0	170.3	154.2
1866	145.0	144.4	150.0	.....	.....	.....	.....	.....	196.4	196.3	187.5	240.0	212.5	203.4	177.8
1867	150.0	144.4	150.0	.....	.....	.....	.....	.....	167.9	166.7	171.9	157.5	162.5	155.2	164.4
1868	120.0	144.4	150.0	150.0	103.1	134.4	133.2	191.7	135.7	135.2	129.7	130.0	137.5	110.3	117.8
1869	135.0	144.4	150.0	112.0	62.5	100.0	87.8	141.7	139.3	125.9	121.9	140.0	131.3	103.4	115.6
1870	135.0	155.6	150.0	80.0	56.3	93.8	78.0	.....	142.0	129.6	125.0	150.0	150.0	127.6	128.9
1871	105.0	133.3	150.0	.....	.....	.....	.....	.....	139.3	129.6	125.0	134.0	137.5	113.8	117.8
1872	120.0	133.3	150.0	.....	.....	.....	.....	.....	135.7	122.2	115.6	120.0	125.0	103.4	106.7
1873	105.0	133.3	150.0	80.0	53.1	68.8	64.4	.....	135.7	129.6	125.0	124.0	130.0	106.9	122.2
1874	105.0	122.2	150.0	80.0	50.0	68.8	.....	.....	125.0	129.6	125.0	120.0	125.0	106.9	115.6
1875	85.0	111.1	137.5	65.0	43.8	53.1	63.4	91.7	114.3	111.1	109.4	112.0	112.5	103.4	111.1
1876	75.0	94.4	137.5	60.0	40.6	43.8	58.5	.....	107.1	103.7	103.1	100.0	100.0	96.6	100.0
1877	80.0	88.9	137.5	60.0	31.3	40.6	58.5	.....	92.9	88.9	87.5	88.0	90.0	79.3	82.2
1878	70.0	88.9	137.5	56.0	28.1	37.5	56.1	62.5	85.7	77.8	78.1	88.0	85.0	79.3	84.4
1879	70.0	88.9	125.0	50.0	25.0	34.4	53.7	62.5	71.4	70.4	68.8	80.0	75.0	72.4	82.2
1880	80.0	100.0	125.0	45.0	25.0	34.4	53.7	.....	107.1	81.5	78.1	128.0	125.0	103.4	106.7
1881	75.0	94.4	125.0	40.0	21.9	31.3	51.2	.....	100.0	90.7	89.1	96.0	95.0	87.9	88.9
1882	75.0	93.3	137.5	40.0	21.9	31.3	51.2	.....	100.0	90.7	89.1	96.0	95.0	86.2	86.7
1883	75.0	93.3	137.5	40.0	21.9	28.1	48.8	.....	92.9	92.6	87.5	96.0	95.0	89.7	86.7
1884	67.5	93.3	137.5	40.0	20.6	28.1	48.8	.....	92.9	92.6	87.5	100.0	90.0	86.2	83.3
1885	67.5	93.3	125.0	38.0	18.8	25.0	46.3	58.3	85.7	75.6	75.0	92.0	87.5	82.8	80.0
1886	75.0	93.3	125.0	38.0	17.5	25.0	46.3	55.0	75.0	74.1	73.8	88.0	82.5	79.3	77.8
1887	75.0	93.3	125.0	38.0	17.5	25.0	43.9	50.0	71.4	74.1	71.9	84.0	75.0	75.9	75.6
1888	75.0	93.3	125.0	35.0	16.9	25.0	41.5	46.7	78.6	77.8	75.0	84.0	77.5	75.9	75.6
1889	75.0	93.3	125.0	33.0	16.3	21.9	39.0	46.7	82.1	81.5	78.1	100.0	95.0	82.8	80.0
1890	70.0	93.3	125.0	32.0	16.3	21.9	39.0	41.7	78.6	81.5	78.1	100.0	95.0	86.2	84.4
1891	70.0	93.3	125.0	30.0	15.6	20.6	36.6	41.7	85.7	88.9	84.4	100.0	95.0	82.8	82.2

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices—Concluded.*

MISCELLANEOUS.

Year.	Powder.		Rubber, Para.	Soap, castile, mottled, imported.	Starch.					
	Rifle.	Rifle.			Ontario.	Ordinary laundry.	Pearl.	Pure.	Refined.	Silver gloss.
1840.....				147.1						
1841.....				147.1						
1842.....				170.6						
1843.....				123.5						
1844.....				129.4			129.6			
1845.....				100.0			129.6			
1846.....	100.0			94.1			138.9			
1847.....	90.0			117.6			157.4			
1848.....	100.0			135.3			138.9	128.2		
1849.....	90.0			117.6				121.8		
1850.....	85.0			117.6			114.4	113.7		
1851.....	85.0			111.8			105.6	105.6	105.6	
1852.....	80.0			105.9			105.6	105.6	105.6	
1853.....	90.0			114.7			114.4	113.7	113.1	
1854.....	80.0	66.7		138.2			123.1	121.8	120.6	
1855.....	80.0	91.7		129.4			131.9	129.9	128.2	
1856.....	125.0	91.7	90.9	129.4			140.7	138.0	135.7	
1857.....	100.0	100.0	65.5	122.1		117.3	123.1	121.8	120.6	119.2
1858.....	120.0	83.3	58.2	129.4		102.7	94.2	94.9	95.4	96.1
1859.....	100.0	89.6	86.4	123.5		107.7	100.0	100.0	100.0	100.0
1860.....	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	100.0	114.7	100.0	92.3	100.0	100.0	100.0	100.0
1862.....	140.0	104.2	87.3	152.9	100.0	92.3	91.7	92.3	92.9	93.5
1863.....	130.0	116.7	159.1	170.6	140.0	115.4	116.7	115.4	114.3	112.9
1864.....	145.0	138.9	145.5	217.6	180.0	169.2	141.7	138.5	135.7	132.3
1865.....	180.0	141.7	218.2	294.1	240.0	169.2	208.3	200.0	192.9	183.9
1866.....	170.0	125.0	181.8	232.4	180.0	153.9	175.0	169.2	164.3	158.1
1867.....	152.0	108.3	118.2	200.0	200.0	169.2	175.0	169.2	164.3	158.1
1868.....	130.0		122.7	188.2	200.0	169.2	175.0	169.2	164.3	158.1
1869.....	135.0		149.1	176.5	180.0	153.9	175.0	169.2	164.3	158.1
1870.....	115.0	95.8	181.8	152.9	180.0	153.9	158.3	153.8	150.0	145.2
1871.....	115.0		181.8	120.6	180.0	134.7	158.3	153.8	150.0	145.2
1872.....	120.0	100.0	131.8	132.4	160.0	134.7	141.7	138.5	135.7	132.3
1873.....	125.0	104.2	134.5	117.6	160.0	134.7	141.7	138.5	135.7	132.3
1874.....	125.0	87.5	136.4	105.9	160.0	134.7	141.7	138.5	135.7	132.3
1875.....	105.0	79.2	106.4	105.9	150.0	134.7	141.7	138.5	135.7	132.3
1876.....	95.0	90.0	116.4	100.0	130.0	119.8	125.0	123.1	128.6	125.8
1877.....	110.0		105.5	102.9	126.2	116.4	125.0	123.1	128.6	125.8
1878.....	113.0	94.2	89.1		126.2	94.6	121.5	119.7	125.0	122.3
1879.....	115.0	100.0	92.7		97.2	94.6	97.2	104.7	111.1	106.6
1880.....	120.0		147.3		97.2	94.6	97.2	104.7	111.1	106.6
1881.....	125.0	104.2	138.2	108.8	97.2	94.6	97.2	104.7	111.1	106.6
1882.....	125.0		158.2	100.0	107.0	92.7	105.3	112.2	118.1	112.9
1883.....	125.0	83.3	194.5	100.0	120.0	101.9	105.3	112.2	118.1	112.9
1884.....	100.0		174.5	82.4	110.0	78.6	108.3	115.4	121.4	116.1
1885.....	100.0		101.8	79.4	100.0	86.1	100.0	100.0	107.1	103.2
1886.....	100.0	75.0	110.9	76.5	80.0	60.4	100.0	100.0	107.1	103.2
1887.....	100.0		138.2	67.6	80.0	60.4	83.3	84.6	92.9	90.3
1888.....	100.0		138.2	64.7	80.0	70.0	83.3	84.6	92.9	90.3
1889.....	100.0		134.5	64.7	80.0	68.6	83.3	84.6	92.9	90.3
1890.....	100.0	91.7	145.5	70.6	80.0	57.7	83.3	84.6	92.9	90.3
1891.....	110.0	91.7	141.8	73.5	100.0	63.2	91.7	92.3	96.4	90.3

The foregoing table includes all the articles covering the period in question with the exception of five kinds of lumber. As the purpose of the investigation was to ascertain the course of prices for the average consumer, it was felt that these articles, which are articles of luxury only and whose price has increased so immoderately that they can not be said to enter into consumption in the same degree as formerly, should be omitted from this consideration. The articles in question are ash boards, whose price in 1891 was 269.2 per cent of that in 1860; basswood boards, which have risen to 220 per cent of the 1860 price; cherry boards, which have risen to 730.8 per cent of the 1860 price; chestnut boards, which have risen to 318.2 per cent of the 1860 price; poplar boards, which reached 230.8 per cent of the 1860 price; and walnut boards, which rose to 380 per cent of the price in 1860. The increase in the price of these articles is enormous, but they are not articles whose enhanced prices would materially affect the average consumer since substitutes for them are plentiful.

Our first concern is with the results in 1891 as compared with 1860, and with the initial period, 1840. In the following table, 2, the results of individual articles are presented in such a way as to show the prices which have risen and those which have fallen, and the degree in which such rise or fall in price has taken place. The grouping used in the general tables of the Report of the Committee has been followed here with the exception that the articles soap and starch have been taken out of the group food, etc., and placed in miscellaneous. This makes our first group simply food.

TABLE 2.—*Relative prices, 1891 compared with 1860.*

FOOD, 53 ARTICLES.

Uniform:		Fall less than 10 per cent:	
Vegetables, fresh, potatoes, white.....	100.0	Cheese	95.0
Do	100.0	Molasses, Porto Rico, best.....	94.7
Milk, fresh.....	100.0	Fruit, raisins	91.3
Bread, soda crackers	100.0	Fall 10 to 25 per cent:	
Rise less than 10 per cent:		Starch, corn	82.4
Meat, lamb.....	102.0	Bread, oyster crackers	80.0
Meat, beef, loins.....	105.6	Fruit, currants, Zante.....	79.2
Meat, beef, ribs.....	106.7	Meal, corn, yellow, kiln-dried	78.3
Flour, rye.....	107.5	Meat, bacon, clear	76.0
Spices, pepper, whole, Sumatra	107.5	Fall 25 to 50 per cent:	
Eggs.....	109.6	Sugar, brown.....	75.0
Rise 10 to 25 per cent:		Meat, pork, salt, mess	75.0
Bread, B shipbread	112.5	Starch, corn	73.6
Bread, ship biscuits.....	112.5	Flour, wheat	72.1
Bread, Boston crackers.....	114.3	Molasses, New Orleans, prime.....	67.9
Bread, navy shipbread.....	114.3	Sugar, fair refining.....	62.9
Fruit, apples, dried.....	116.1	Sugar, cut.....	62.2
Salt, Ashton's Liverpool, fine	116.9	Meat, beef, salt, mess.....	60.9
Beans	118.7	Lard, pure leaf.....	60.6
Meat, ham, sugar-cured	122.2	Sugar, refined, crushed and granulated.....	59.4
Rise 25 to 50 per cent:		Bread, Boston crackers	58.8
Bread, A shipbread	125.0	Salt, coarse, solar	55.4
Salt, Turk's Island.....	125.0	Lard	54.3
Rice, Carolina, prime.....	126.5	Salt, fine, boiled	52.0
Salt, Ashton's.....	128.2	Fall 50 per cent or more:	
Butter	128.6	Tallow, prime, city, in hogsheads.....	45.1
Meat, mutton	130.0		
Spices, nutmegs.....	142.9		
Rise 50 to 100 per cent:			
Fish, mackerel, salt, shore, No. 1	150.0		
Fish, mackerel, salt, shore, No. 2	164.7		
Coffee, Rio, fair.....	165.2		
Rise 100 to 200 per cent:			
Fish, mackerel, salt, shore, No. 3	230.0		
Rise 200 per cent or more:			
Fish, cod.....	312.5		

TABLE 2.—*Relative prices, 1891 compared with 1860—Continued.*

CLOTHS AND CLOTHING, 28 ARTICLES.

Uniform:		Fall less than 10 per cent:	
Broadcloths, first quality black, 54-in., etc.....	100.0	Cassimeres, all wool, fancy, light weight, 3-4.....	99.6
Rise 10 to 25 per cent:		Shawls, standard, 72 by 144 in., 42-oz., etc.....	95.0
Carpets, Wilton, 5-frame, Bigelow.....	113.5	Carpets, Brussels, 5-frame, Bigelow.....	90.4
Broadcloths, second quality, black, 54-in., etc.....	116.7	Fall 10 to 25 per cent:	
		Cassimeres, 3-4, 12-ounce, Harris double and twist.....	89.0
		Sole leather, first quality, etc.....	87.0
		Leather, harness.....	85.7
		Cotton, upland, middling.....	84.7
		Sheetings, brown, 4-4, Atlantic A.....	83.1
		Blankets, 11-4, 5 pounds to pair, cotton warp, all wool filling.....	82.9
		Checks, black and white, all wool, 3-4, 7-oz., Harris.....	82.3
		Wool, Ohio, medium fleece, scoured.....	81.7
		Horse blankets, 6-lb., all wool.....	81.1
		Denims, Amoskeag.....	81.0
		Cassimeres, all wool, 3-4, 7-oz., Harris double and twist.....	78.5
		Carpets, ingrain, 2-ply, Lowell.....	78.4
		Drillings, 30-inch, Pepperell.....	76.8
		Blankets, 11-4, 5 pounds to the pair, cotton warp, cotton and wool filling.....	76.7
		Fall 25 to 50 per cent:	
		Sheetings, bleached, 4-4, N. Y. Mills.....	71.7
		Tickings, Amoskeag, A. C. A.....	70.6
		Cassimeres, all wool, 3-4, 12-oz., Harris, silk mixed.....	69.2
		Wool, Ohio fine fleece, scoured.....	69.0
		Calico, Coheco prints.....	63.2
		Hides, dry, Buenos Ayres.....	55.2
		Print cloths, 28-in., 64 by 64, Metacomet.....	54.7
		Print cloths, standard, 28-in., 7 yards to pound.....	51.7

FUEL AND LIGHTING, 10 ARTICLES.

Uniform:		Fall less than 10 per cent:	
Coal, anthracite, pea.....	100.0	Coal, anthracite, grate.....	97.3
Rise less than 10 per cent:		Coal, anthracite, F. lump.....	96.0
Coal, anthracite, egg.....	103.9	Coal, anthracite, S. lump.....	96.0
Coal, anthracite, stove.....	109.0	Fall 10 to 25 per cent:	
Rise 10 to 25 per cent:		Matches, 8-card.....	77.1
Coal, anthracite, chestnut.....	120.6	Fall 25 to 50 per cent:	
		Coal, bituminous.....	62.0
		Fall 50 per cent or more:	
		Candles, best adamantine.....	48.1

METALS AND IMPLEMENTS, 54 ARTICLES.

Rise 10 to 25 per cent:		Fall less than 10 per cent:	
Anvils, domestic.....	118.5	Saws, hand, standard Disstons.....	97.4
Rise 25 to 50 per cent:		Rope, tarred, American.....	97.3
Rope, manila.....	133.3	Lead pipe.....	96.7
Spelter, imported.....	133.3	Rope, tarred, Russian.....	94.7
Quicksilver.....	136.2	Woodscrews, 1-inch, No. 10, flat head, iron.....	92.2
		One variety of pocket knife.....	
		Fall 10 to 25 per cent:	
		Lead drop shot.....	88.0
		Pig iron, No. 1, Anthracite foundry.....	77.0
		Iron rods, for making wood screws.....	76.0
		Lead, pig.....	75.5
		Six varieties of pocket knives.....	
		Fall 25 to 50 per cent:	
		Copper, sheet.....	74.6
		Shovels, Ames, No. 2, cast steel, etc.....	72.7
		Bar iron, best refined, rolled.....	72.4
		Butts, loose pin, cast, 3 x 3-inch.....	70.2
		Lead, pig.....	70.1
		Saws, crosscut, 6-foot, Disston's.....	65.2
		Locks, common mortise.....	60.1
		Scythes.....	60.0
		Copper, ingot.....	59.6
		Nails, cut.....	59.4
		Iron wire, market, No. 10.....	57.7
		Locks, common rim.....	54.4
		Saws, circular, 52-inch, Disston's.....	52.8
		18 varieties of pocket knives.....	
		Fall 50 per cent or more:	
		Meat cutters, Hale's, No. 12.....	42.3
		Door knobs, mineral.....	40.0
		Saws, hand, common, Disston's.....	37.5

TABLE 2.—Relative prices, 1891 compared with 1860—Continued.

LUMBER AND BUILDING MATERIALS, 35 ARTICLES.

Uniform:		Fall less than 10 per cent:	
Chestnut, lumber, in the log, not sawed.	100.0	Oxide of zinc, American, dry.....	94.4
Rise 10 to 25 per cent:		Turpentine.....	93.8
Brick, common domestic, building.....	117.1	Fall 10 to 25 per cent:	
Maple, boards, first quality, 1-in., rough.	122.2	Plate glass, polished, unsilvered, 10-40	
Rise 25 to 50 per cent:		sq. feet.....	89.2
Pine, flooring, white, extra, 1-in., etc....	128.6	Plate glass, polished, unsilvered, 5-10 sq.	
Pine, boards, white, common, 1-in., etc....	130.4	feet.....	88.5
Spruce, boards, 1-inch.....	131.3	Plate glass, polished, unsilvered, 1-3 sq.	
Hemlock, lumber, in log, not sawed.....	133.3	feet.....	87.8
Shingles, pine, 16 in., extra XXX, cut..	145.5	Carbonate of lead in oil.....	86.2
Hemlock, boards, first quality, 1-in., etc.	146.4	Cement, Rosendale.....	85.0
Rise 50 to 100 per cent:		Window glass, American, 10 by 14, firsts,	
Lime, Rockland.....	150.0	single.....	83.1
Pine, lumber, in log, not sawed.....	150.0	Tar, Wilmington.....	80.0
Shingles, pine, 16 inches, extra XXX,		Window glass, French, 10 by 14, thirds,	
sawed.....	150.0	single.....	78.2
Pine, boards, white, clear, 1-in., etc.....	160.0	Doors, pine, unmoulded, etc.....	78.1
Shingles, pine, 16 inches, XXX.....	165.7	Window glass, French, 10 by 14, firsts,	
Pine, boards, white, common, 1-in., etc....	173.0	single.....	78.0
Pine, boards, white, culls, 1-in., etc....	177.8	Plate glass, polished, unsilvered, 3 to 5	
Pine, boards, white, clear, extra, 1-in., etc.	183.3	sq. feet.....	76.5
Rise 100 to 200 per cent:		Fall 25 to 50 per cent:	
Pine, boards, white, clear, extra, 1-in., etc.	207.1	Plate glass, polished, unsilvered, 40-80	
Rise 200 per cent or more:		sq. feet.....	66.7
Oak, boards, white, plain, first quality,		Putty.....	66.7
1-in., etc.....	318.2	Plate glass, polished, unsilvered, 80-100	
		sq. feet.....	57.2

DRUGS AND CHEMICALS, 18 ARTICLES.

Rise less than 10 per cent:		Fall 10 to 25 per cent:	
Sugar of lead, white.....	104.3	Sugar of lead, brown.....	80.0
Linseed oil.....	107.0	Alum. lump, crystal.....	77.8
Rise 10 to 25 per cent:		Fall 25 to 50 per cent:	
Calomel.....	119.1	Copperas.....	75.0
Rise 25 to 50 per cent:		Flaxseed.....	69.3
Mercury.....	127.3	Soda ash.....	68.4
Rise 200 per cent or more:		Brimstone, crude.....	57.8
Alcohol.....	411.1	Fall 50 per cent or more:	
		Bichromate of potash.....	47.6
		Blue vitriol.....	47.4
		Opium.....	39.1
		Glycerine, refined.....	38.8
		Muriatic acid.....	29.2
		Quinine.....	27.2
		Sulphuric acid.....	27.3

HOUSE FURNISHING GOODS, 15 ARTICLES.

Uniform:		Fall less than 10 per cent:	
Tubs, wooden.....	100.0	Tubs, wooden.....	95.0
Rise 25 to 50 per cent:		Furniture, chairs, kitchen, common,	
Furniture, tables, kitchen, pine, 3½-foot.	125.0	spindle.....	93.3
		Fall 10 to 25 per cent:	
		Pails, wooden, 2-hoop.....	88.9
		Pails, wooden, 2-hoop.....	85.7
		Pails, wooden, 3-hoop.....	84.4
		Tubs, wooden.....	82.8
		Tubs, wooden.....	82.2
		Fall 25 to 50 per cent:	
		Furniture, chairs, bedroom, maple, cane	
		seat.....	70.0
		Fall 50 per cent or more:	
		Glassware, tumblers, ½-pint.....	41.7
		Glassware, sets, finished.....	36.6
		Glassware, bowls, 8-inch.....	30.0
		Glassware, pitchers, ½-gallon.....	20.6
		Glassware, goblets, common.....	15.6

MISCELLANEOUS, 10 ARTICLES.

Uniform:		Fall less than 10 per cent:	
Starch, Ontario.....	100.0	Starch, refined.....	96.4
Rise 10 to 25 per cent:		Starch, pure.....	92.3
Powder, rifle.....	110.0	Powder, rifle.....	91.7
Rise 25 to 50 per cent:		Starch, pearl.....	91.7
Rubber, Para.....	141.8	Starch, silver gloss.....	90.3
		Fall 25 to 50 per cent:	
		Soap, castile, mottled, imported.....	73.5
		Starch, ordinary laundry.....	63.2

TABLE 2.—*Relative prices, 1891 compared with 1860—Concluded.*

NUMERICAL SUMMARY.

	Number of articles.	Per cent.
Prices which rise—		
200 per cent or more	3	1.4
100 to 200 per cent	2	0.9
50 to 100 per cent	11	4.9
25 to 50 per cent	19	8.5
10 to 25 per cent	16	7.2
Less than 10 per cent	10	4.5
Prices which remain uniform	9	4.0
Prices which fall—		
Less than 10 per cent	24	10.8
10 to 25 per cent	48	21.5
25 to 50 per cent	64	28.7
50 per cent or more	17	7.6
Total	223	100.0

A careful examination of the foregoing table reveals many marked changes in price. There are notable instances of increased prices to be found, especially in the groups food, and lumber and building materials. Other groups present few instances of greatly increased prices. This is especially true of cloths and clothing, where but two articles, and these not goods of common consumption, have increased in price. It is eminently true that, apart from the two groups which we have mentioned, decreased prices are the rule and increased prices the exception. Decreased prices are especially the case where manufactured articles enter largely into the groups. In the table the articles have been so arranged that the degree of change could be easily seen. To this end the numerical summary has also been added to the table. From this it appears that but 4 per cent of the articles have to-day the same prices which they had in 1860. Of the remaining 96 per cent there has been a rise in price in 27.4 per cent of all the articles and a fall in price in 68.6 per cent of the articles.

The changes in price and their degree are brought out more clearly in Table 3, which follows, and which shows the changes by groups of articles as well as for the total:

TABLE 3.—*Changes in prices, 1891 compared with 1860.*

Groups.	Number of articles.	Rise 200 per cent or more.	Rise 100 to 200 per cent.	Rise 50 to 100 per cent.	Rise 25 to 50 per cent.	Rise 10 to 25 per cent.	Rise less than 10 per cent.	Uni-form.	Fall less than 10 per cent.	Fall 10 to 25 per cent.	Fall 25 to 50 per cent.	Fall 50 per cent or more.
Food.....	53	1	1	3	7	8	6	4	3	5	14	1
Cloths and clothing.....	28					2		1	3	14	8	
Fuel and lighting.....	10					1		1	3	1	1	1
Metals and implements.....	54				3	1			6	10	31	3
Lumber and building materials....	35	1	1	8	6	2		1	2	11	3	
Drugs and chemicals	18	1			1	1	2			2	4	7
House furnishing goods	15				1			1	2	5	1	5
Miscellaneous	10				1	1		1	5		2	
Total	223	3	2	11	19	16	10	9	24	48	64	17

It is quite evident from this table that increased prices are infrequent except in the groups food, and lumber and building materials.

To obtain as full a view as possible of the changes in prices in 1891 as compared with former dates, it has been thought well to institute as

far as possible a comparison with the initial year of the investigation, 1840. There are eighty-five articles for which prices are given in 1840 and 1891. Table 4 has been prepared on the same plan as Table 2 and is here inserted:

TABLE 4.—*Relative prices, 1891 compared with 1840.*

FOOD, 30 ARTICLES.

Rise less than 10 per cent:		Fall 10 to 25 per cent:	
Cheese.....	105.6	Bread, ship biscuits.....	90.0
Flour, rye.....	107.5	Meat, pork, salt, mess.....	86.8
Rise 10 to 25 per cent:		Meat, ham, sugar-cured.....	84.8
Spices, pepper, whole, Sumatra.....	120.0	Meal, corn, yellow, kiln-dried.....	83.8
Molasses, Porto Rico, best.....	120.0	Meat, bacon, clear.....	81.7
Molasses, New Orleans, prime.....	124.1	Lard.....	81.4
Rise 25 to 50 per cent:		Salt, fine, boiled.....	81.3
Fish, mackerel, salt, shore, No. 2.....	133.4	Salt, Turk's Island.....	78.1
Rise 50 to 100 per cent:		Fall 25 to 50 per cent:	
Butter.....	150.0	Sugar, fair refining.....	74.4
Fruit, raisins.....	152.7	Lard, pure leaf.....	70.8
Salt, Ashton's Liverpool, fine.....	156.3	Spices, nutmegs.....	70.6
Salt, Ashton's.....	172.3	Meat, beef, salt, mess.....	56.0
Fish, mackerel, salt, shore, No. 1.....	188.2	Salt, coarse, solar.....	55.6
Rice, Carolina, prime.....	195.5	Tallow, prime, city, in hogsheads.....	51.4
Rise 100 to 200 per cent:		Fall 50 per cent or more:	
Fish, mackerel, salt, shore, No. 3.....	209.1	Sugar, refined, crushed and granulated.....	49.5
Coffee, Rio, fair.....	211.0	Fruit, currants, Zante.....	43.2

CLOTHS AND CLOTHING, 9 ARTICLES.

Rise 25 to 50 per cent:		Fall less than 10 per cent:	
Leather, harness.....	136.2	Cotton, upland, middling.....	94.3
		Sole leather, first quality, etc.....	90.1
		Fall 10 to 25 per cent:	
		Hides, dry, Buenos Ayres.....	87.7
		Fall 25 to 50 per cent:	
		Broadcloths, second quality, black, 54-in., etc.....	72.3
		Tickings, Amoskeag, A. C. A.....	68.6
		Broadcloths, first quality, black, 54-in., etc.....	62.5
		Carpets, ingrain, 2-ply, Lowell.....	58.8
		Fall 50 per cent or more:	
		Calico, Cocheco prints.....	50.0

FUEL AND LIGHTING, 1 ARTICLE.

Fall 50 per cent or more:	
Matches, 8-card.....	19.5

METALS AND IMPLEMENTS, 12 ARTICLES.

Rise less than 10 per cent:		Fall less than 10 per cent:	
Rope, manila.....	104.7	Lead, pig.....	92.5
Rise 50 to 100 per cent:		Fall 10 to 25 per cent:	
Spelter, imported.....	155.5	Lead, pig.....	85.2
		Copper, sheet.....	78.6
		Copper, ingot.....	77.8
		Fall 25 to 50 per cent:	
		Rope, tarred, Russian.....	75.0
		Wood screws, 1-in., No. 10, flat head, iron.....	72.8
		Lead, drop shot.....	68.9
		Quicksilver.....	66.4
		Fall 50 per cent or more:	
		Iron rods, for making wood screws.....	42.0
		Nails, cut.....	33.8

LUMBER AND BUILDING MATERIALS, 15 ARTICLES.

Rise 10 to 25 per cent:		Fall 10 to 25 per cent:	
Hemlock, boards, first quality, 1-in., etc.....	113.8	Carbonate of lead, in oil.....	88.0
Spruce, boards, 1-inch.....	123.5	Lime, Rockland.....	80.0
Rise 25 to 50 per cent:		Fall 25 to 50 per cent:	
Tar, Wilmington.....	133.3	Doors, pine, unmoulded, etc.....	71.4
Pine, flooring, white, extra, 1-in., etc.....	133.4	Window glass, American, 10 by 14, firsts, single.....	59.1
Pine, boards, white, common, 1-in., etc.....	142.8	Fall 50 per cent or more:	
Shingles, pine, 16-in., XXX.....	145.0	Putty.....	50.0
Shingles, pine, 16-in., extra XXX, cut.....	145.5		
Rise 50 to 100 per cent:			
Turpentine.....	150.1		
Pine, boards, white, clear, 1-in., etc.....	160.0		
Pine, boards, white, clear, extra, 1-in., etc.....	183.3		

TABLE 4.—*Relative prices, 1891 compared with 1840—Concluded.*

DRUGS AND CHEMICALS, 15 ARTICLES.

Rise less than 10 per cent:		Fall 10 to 25 per cent:	
Linseed oil.....	109.0	Sugar of lead, white.....	84.2
Rise 10 to 25 per cent:		Flaxseed.....	79.1
Opium.....	112.4	Fall 25 to 50 per cent:	
Rise 200 per cent or more:		Mercury.....	60.9
Alcohol.....	403.4	Calomel.....	30.0
		Blue vitriol.....	53.0
		Fall 50 per cent or more:	
		Soda ash.....	50.0
		Brimstone, crude.....	47.3
		Alum, lump, crystal.....	35.0
		Copperas.....	33.3
		Sulphuric acid.....	25.0
		Muriatic acid.....	21.9
		Quinine.....	9.2

HOUSE FURNISHING GOODS, 2 ARTICLES.

Rise 25 to 50 per cent:		Fall 25 to 50 per cent:	
Tubs, wooden.....	138.9	Pails, wooden, 2-hoop.....	53.3

MISCELLANEOUS, 1 ARTICLE.

Fall 50 per cent or more:	
Soap, castile, mottled, imported.....	50.0

NUMERICAL SUMMARY.

	Number of articles	Per cent.
Prices which rise—		
200 per cent or more.....	1	1.2
100 to 200 per cent.....	2	2.4
50 to 100 per cent.....	10	11.8
25 to 50 per cent.....	8	9.4
10 to 25 per cent.....	6	7.1
Less than 10 per cent.....	4	4.7
Prices which remain uniform.....		
Prices which fall—		
Less than 10 per cent.....	3	3.5
10 to 25 per cent.....	16	18.8
25 to 50 per cent.....	20	23.5
50 per cent or more.....	15	17.6
Total.....	85	100.0

The comparison of 1891 prices with 1840 shows a larger proportion of higher prices than the comparison of 1891 prices with 1860. This is brought out plainly in the numerical summary, from which it appears that while prices were higher in 36.6 per cent of the cases they were lower in 63.4 per cent of all the cases. Attention should be called also to the large proportion of extreme variations, particularly among the decreased prices. Table 5 shows the changes in price by groups in detail. Cases of increased prices are again confined almost exclusively to the groups food, and lumber and building materials.

TABLE 5.—*Changes in prices, 1891 compared with 1840.*

Groups.	Number of articles.	Rise 200 per cent or more.	Rise 100 to 200 per cent.	Rise 50 to 100 per cent.	Rise 25 to 50 per cent.	Rise 10 to 25 per cent.	Rise less than 10 per cent.	Uniform.	Fall less than 10 per cent.	Fall 10 to 25 per cent.	Fall 25 to 50 per cent.	Fall 50 per cent or more.
Food.....	30		2	6	1	3	2			8	6	2
Cloths and clothing.....	9				1				2	1	4	1
Fuel and lighting.....	1											1
Metals and implements.....	12			1			1		1	3	4	2
Lumber and building materials.....	15			3	5	2				2	2	1
Drugs and chemicals.....	15	1				1	1			2	3	7
House-furnishing goods.....	2				1						1	
Miscellaneous.....	1											1
Total.....	85	1	2	10	8	6	4		3	16	20	15

In these tables it is shown that the range of variation for the different articles included in the list is quite considerable, and it is difficult to gain an idea of the general condition of prices as compared with 1860 unless some method be adopted by which this body of facts can be reduced to a single expression. A familiar method of ascertaining what has been the general course of prices is to divide the sum of relative prices by the number of articles included in the list. In this manner we can ascertain the average tendency in the prices of these articles. In Table 6 we give the prices of 1891 as compared with 1860 by groups of articles and for the total number.

TABLE 6.—*Relative prices, 1891 compared with 1860, by groups.*

Group.	1	2	3
	Number of articles.	Sum of relative prices.	Division of 2 by 1.
Food.....	53	5,507.1	103.9
Cloths and clothing.....	28	2,269.4	81.1
Fuel and lighting.....	10	910.0	91.0
Metals and implements.....	54	4,043.5	74.9
Lumber and building materials.....	35	4,279.3	122.3
Drugs and chemicals.....	18	1,553.8	86.3
House furnishing goods.....	15	1,051.8	70.1
Miscellaneous.....	10	950.9	95.1
Total.....	223	20,565.8	92.2

We find that these prices, on an average, are 92.2 per cent of what the prices were for the year 1860. In the different groups concerned there is a considerable variation. Thus there are two groups in which the average price to-day is greater than it was in 1860: food, which stands at 103.9, and lumber and building materials, which stands at 122.3. In regard to the latter an investigation of Table 1 will show that the main increase has been in lumber, other building materials showing some tendency to decline in prices. It will be observed that the minimum price is found in house furnishing goods, 70.1. Two important groups, representing almost exclusively manufactured products, show a considerable decline. They are metals and implements at 74.9 and cloths and clothing at 81.1. The statement which we have here made as to the average price of 1891 as compared with 1860 represents only the average fluctuation of the prices represented. It need not be insisted that each article in the list, no matter how important or how insignificant, has had an equal value in determining this result.

It is further evident that where an extreme variation occurs the price for the whole number of articles or for the particular group may be seriously affected by this fact. Thus, for instance, in the group food, we have the most extraordinary price of codfish at 312.5. If codfish be omitted from the calculation, the average for food would be reduced 4 per cent and would stand at less than 100, at 99.9 instead of 103.9, a difference by no means inconsiderable. At the same time it should be remembered that codfish is one of the extreme instances, and that, while the effect upon food from the omission of codfish is to reduce the relative price 4 per cent, the change which its omission effects in the general result for 223 articles is only 1 per cent, a change in the result from 92.2 to 91.2, so that after all, if these abnormal prices be few—and an examination of the table will show that this is the case—it is clear that the figures which we have given approximate the actual condition of prices to-day as compared with the year 1860.

A comparison similar to that which has been made above for 1860 can be made for the lesser number of articles whose prices reach back to the year 1840. Taking that year as the basis, expressing the prices in 1891 in terms of it, and summarizing as before by groups, we have the following table, 7.

TABLE 7.—*Relative prices, 1891 compared with 1840, by groups.*

Groups.	1	2	3
	Number of articles.	Sum of relative prices.	Division of 2 by 1.
Food	30	3, 285. 4	109. 5
Cloths and clothing	9	720. 6	80. 1
Fuel and lighting	1	19. 5	19. 5
Metals and implements	12	953. 2	79. 4
Lumber and building materials	15	1, 779. 2	118. 6
Drugs and chemicals	15	1, 183. 7	78. 9
House furnishing goods	2	192. 2	96. 1
Miscellaneous	1	50. 0	50. 0
Total.....	85	8, 183. 8	96. 3

As in the previous comparison, we see increased prices only in the groups food, and lumber and building materials. In other groups the decline in prices is not so marked for the 85 articles compared with 1840 as it was for 223 articles compared with 1860. The difference for all articles is less than in the former comparison.

It is not meant, however, that the results of these comparisons are absolute, for it must be evident that a list containing so many articles as the present must necessarily include many of comparatively slight importance, either to the individual or to the nation as a whole. If we seek the real effect of the changes which have occurred in prices, we must measure them in some way by the amounts in which the articles are consumed. Otherwise, it might easily happen that the price of an article rarely used would outbalance one which was consumed daily. Thus, the relative price of wheat flour is 72.1 and of nutmegs, 142.9. It would be manifestly meaningless to assert that the average price of these two articles was 107.5. The only proper method by which an average of these two articles could be obtained would be to assign to each an importance in the result equal to its importance in the consumption of families.

Undoubtedly the best measure of the proper proportions in which the various articles included in our list should enter into the general result is the consumption of families. Fortunately we have the facts from which we can ascertain with a great degree of accuracy the values of various articles consumed by a large number of families, which may be considered typical of the expenditure of the mass of the people. In his recent reports upon the cost of production the Commissioner of Labor has furnished voluminous tables relating to family earnings and expenses. From these tables we can ascertain the proportion in which the various articles of consumption enter into the budget of the classes concerned. The table which we shall use as the basis of comparison is based upon Table XLIV of the Seventh Annual Report. It is that which furnished the basis of our analysis of retail prices. The table, which is here inserted, gives the statement of the relative expenditure for the main groups of family expenses of 2,561 (a) normal

(a) The number of families is from a preliminary manuscript table, which was used in the Report on Retail Prices and Wages, and is therefore preserved here. The addition of one family in the published Report of the Department of Labor makes immaterial changes in the proportions. They are: rent, 1,505; food, 4,105; fuel, 501; clothing, 1,531; lighting, 90; and all other purposes, 2,268.

families selected from the larger number which are contained in the reports on the cost of production. It should be noted that a normal family, according to the definition adopted by the Commissioner, is one which has no boarders or dependents, does not own its dwelling place, has an expenditure given for rent, fuel, lighting, clothing, and food, has both a husband and a wife, and has not more than five children, no one of which is over 14 years of age.

TABLE 8.—*Distribution of expenditure for 2,561 normal families.*

Group.	Proportions of 10,000.
Rent	1, 506
Food	4, 103
Fuel	500
Clothing	1, 531
Light	90
All other purposes.....	2, 270
Total	10, 000

The table we have given includes only the main groups of family expenses. It tells us nothing of the expenditure within the groups mentioned, but as the most important group, food, includes over 40 per cent of the total expenditure it is highly important to discover in what proportions the different articles of food enter into this result. While this might have been done from the tables presented in the reports of the Commissioner, which give the details of expenditure for the different articles of food and of clothing, this would not have been altogether satisfactory. In the grouping for food adopted by the Department of Labor there are two general groups, one, meat not specified, and the other, food not specified. These assume very considerable proportions in any general average from the figures of the Department. In order to obviate this difficulty, therefore, special budgets were collected in various places in the United States with a view to obtaining a greater degree of accuracy in regard to the details of expenditure both for food and clothing than was possible in the general report of the Commissioner. The budgets which are embodied in Tables VI and VII in the report on retail prices cover a large variety of occupations and may be considered representative of the expenditure in the classes of the community which they represent. These budgets contain a more accurate statement for food, and a more specific statement of expenditure for clothing than was made in the reports of the Department.

Following the methods employed in the report on retail prices, we shall use the general distribution of expenditure already given for normal families, and confine the use of the special budgets to the distribution of expenditure within the groups, food, clothing, and other purposes. The expenditure for food, clothing, and miscellaneous purposes is given in Table 9. The table shows the actual amount expended, the quota per capita, and the proportional amount that each item bears to the total.

TABLE 9.—*Expenditure of 232 families for certain purposes.*

FOOD.

Group.	Total.	Per family.	Proportion of 10,000.
Beef	\$9,501.76	\$40.95	1,561
Hog products	3,990.03	17.20	655
Meat (not specified)	3,735.09	16.10	614
Poultry	645.35	2.78	106
Fish	690.26	2.97	113
Eggs	1,920.24	8.28	316
Milk	3,484.04	15.02	572
Butter	6,737.67	29.04	1,107
Cheese	401.66	1.73	66
Tea	1,046.36	4.51	172
Coffee	3,242.92	13.97	532
Sugar	3,872.69	16.69	636
Molasses	333.53	1.44	55
Lard	1,222.19	5.27	201
Flour and meal	6,223.65	28.62	1,022
Bread	2,648.86	11.42	436
Rice	144.09	62	24
Fruit	2,040.84	8.80	332
Potatoes	2,764.49	11.92	454
Vegetables (not specified)	2,910.88	12.55	479
Vinegar, pickles, and condiments	430.37	1.86	71
Food (not specified)	2,894.51	12.47	476
Total	60,881.48	262.42	10,000

CLOTHING.

Group.	Total.	Per family.	Proportion of 10,000.
Husband:			
Coats, vests, trousers, overcoats	\$3,271.51	\$14.11	1,407
Boots and shoes	1,093.65	4.71	470
Hats	401.72	1.73	173
Underclothes	637.23	2.75	274
Shirts	346.47	1.49	149
Miscellaneous	2,091.41	9.01	898
Total	7,841.99	33.80	3,371
Wife:			
Dresses, cloaks, shawls	1,915.78	8.26	824
Boots and shoes	826.60	3.56	354
Underclothes	591.92	2.55	254
Miscellaneous	1,946.56	8.39	836
Total	5,280.86	22.76	2,268
Children:			
Coats, etc	1,415.50	6.10	608
Dresses, etc	1,527.72	6.59	657
Boots and shoes	1,799.66	7.76	774
Hats	645.94	2.78	277
Underclothes	686.98	2.96	295
Shirts	71.29	.31	31
Miscellaneous	4,003.42	17.25	1,719
Total	10,150.51	43.75	4,361
Husband	7,841.99	33.80	3,371
Wife	5,280.86	22.76	2,268
Children	10,150.51	43.75	4,361
Total	23,273.36	100.31	10,000

TABLE 9.—*Expenditure of 232 families for certain purposes—Concluded.*

MISCELLANEOUS PURPOSES (ALL EXPENDITURES EXCEPT FOR FOOD, CLOTHING, RENT, LIGHTING, AND FUEL).

Group.	Total.	Per family.	Proportion of 2,270.*
Taxes	\$1,936.07	\$8.34	115
Insurance	2,546.74	10.98	151
Organizations	1,118.59	4.82	66
Religion	1,556.20	6.71	92
Charity	411.72	1.77	24
Furniture and utensils	4,258.27	18.36	253
Books and newspapers	1,686.90	7.27	100
Amusements	1,550.20	6.68	92
Intoxicating liquors	2,816.15	12.14	168
Tobacco	1,789.77	7.71	107
Illness and death	5,650.56	24.36	335
Other purposes	12,908.90	55.64	767
Total	38,230.07	164.78	2,270

* This is the proportion of this class of expenditure in the total of 10,000.

Before considering the application of these ratios and amounts to the relative prices which have been ascertained for 1891 we must consider two objections which might possibly be raised to such a plan. It might be objected, in the first place, that the figures in regard to the consumption of articles relate to the year 1891 and not to 1860. It might be thought that the most correct measurement of the cost of living would be found by taking what was consumed in 1860 on the one side and what was consumed in 1891 on the other as the basis for the respective periods. If this were impossible it might be clearer to take the consumption of 1860 as a basis and show what the prices in 1891 would have been, based, on the same consumption as in 1860. It will be recognized that both of these are theoretical requirements. It is absolutely impossible to secure the data required, since the records of family expenditure in 1860 were not collected at the time and are no longer extant. The comparison must take the form of ascertaining the consumption at the present time and find its cost as compared with the same consumption at a prior date. In fact it must be recognized that this is not only the only practicable method to be employed, but that it is theoretically correct since we must compare like with like, and that we could not, even if we had the figures, properly compare the consumption of 1860 with that of 1891 to show the effect of changes in price, for if there were any changes, they would probably be shown by the budgets themselves without bringing them into relation with the prices.

In the second place it might be objected that since the prices with which we are here concerned are wholesale prices and not those paid by the consumer, that it is incorrect to bring these prices into relation with the consumption of articles bought at retail as ascertained by the budgets. However, this objection is valid only in case there has been a different movement of retail prices since the beginning of the period than of wholesale prices. If, on the other hand, it is believed that the wholesale and retail prices have borne a more or less fixed relation during this entire period, it must be evident that the course of wholesale prices is indicative of the course of retail prices. As we are dealing exclusively with relative prices it would make absolutely no difference in the latter case whether the prices upon which our calculations were based were retail or wholesale. There can be no doubt that for the purpose of these comparisons retail prices would have been less open to question than wholesale prices. But the probable error arising from the use of wholesale prices in this connection is

not large enough to seriously affect the accuracy and validity of the results which may be reached. It need only be said that the ascertainment of wholesale instead of retail prices for this report was an absolute necessity, as the records of retail sales are not accessible.

We may now deal with the application of the relative prices in 1891 to the volume of consumption. It will be observed that while the prices are for individual articles, the consumption, as indicated in the preceding tables is, in some cases at least, for groups of articles. In order to apply our prices, therefore, to these groups it will be necessary to combine them. The combinations which have been made for food are indicated in the annexed Table, 10.

TABLE 10.—*Formation of group ratios—Food.*

1. Beef— Beef, ribs. Beef, loins.	4. Fish— Cod. Mackerel, No. 1. Mackerel, No. 2. Mackerel, No. 3.	7. Lard— Lard. Lard, pure leaf.
2. Hog products— Ham. Bacon. Salt pork, mess.	5. Molasses— New Orleans. Porto Rico.	8. Fruit— Dried apples. Currants. Raisins.
3. Meat not specified— 2 beef (group 1 above.) 2 hog products (group 2 above). 1 lamb. 1 mutton. 1 beef, salt, mess.	6. Flour and meal— 2 wheat flour. 1 rye flour. 1 corn meal.	9. Vinegar and condiments— Salt (average of coarse solar, and fine boiled). Pepper. Nutmegs.

While, as a general thing, no attempt has been made to do more than average the various articles comprised in a single group, there are occasional exceptions in which one article is assigned a greater importance than the others. This has been done in order to roughly approximate the proper amount to be included, so as to prevent articles of inferior importance outweighing in the result those which are manifestly the main components of the group. The grouping which is here given explains perfectly all of the groups except the final one of food not specified. It is possible to suppose that this refers either to different kinds of food from those already mentioned or else to the same items not specifically reported. An examination of the price lists shows that the grouping, as given above, includes every article found in it, and we are, therefore, forced to the conclusion that this group, food not specified, refers to those that have already been considered. Meat is to be excepted, since meat not specifically mentioned is included in the group, meat not specified. In order to obtain, therefore, a relative price for the group, food not specified, we have found the average price for the various articles of food already mentioned with the exception of meat. The formation of groups having been explained their application to the prices for 1891 is shown in the following Table 11.

TABLE 11.—*Relative prices of food, 1891, measured by its consumption.*

	Group.	Importance.	Index.	Result.*
1	Beef	1,561	106.2	1,657,782
2	Hog products	655	91.1	596,705
3	Meat not specified	614	98.2	602,948
4	Poultry	106	.....	.....
	Total meat	2,830	101.0	2,857,435
5	Fish	113	214.3	242,159
6	Eggs	316	109.6	346,336
7	Milk	572	100.0	572,000
8	Butter	1,107	128.6	1,423,602
9	Cheese	66	95.0	62,700
10	Tea	172	.....	.....
11	Coffee	532	165.2	878,864
12	Sugar	636	59.4	377,784
13	Molasses	55	81.3	44,715
14	Lard	201	57.5	115,575
15	Flour and meal	1,022	82.5	843,150
16	Bread	436	102.2	445,592
17	Rice	24	126.5	30,360
18	Fruit	332	95.5	317,060
19	Potatoes	454	100.0	454,000
20	Vegetables	479	.....	.....
21	Vinegar	71	101.4	71,994
	Total (except meat)	5,937	104.9	6,225,891
22	Food not specified	476	104.9	499,324
	Meat	2,830	101.0	2,857,435
	Grand total	9,243	103.7	9,582,650

* Here and elsewhere the decimal points are omitted in performing the multiplication. The column headed result gives the product of multiplying the importance by the index or ratio.

It will be noticed that the foregoing statement does not include the total expenditure for food as set forth in the table of consumption. There are three groups for which it was impossible to obtain the figures, either because of the inadequacy of the records or because of the extreme difficulty of obtaining prices for absolutely identical goods at different periods. The first is the reason why no figures were secured for the prices of poultry and vegetables, while the second is the cause of the omission of tea. However, the statement as given in Table 11 covers 92 per cent of the total expenditure for food, and we may, therefore, consider it representative of the entire expenditure without doing any serious violence to the facts in the case. It is perfectly fair to assume that the portion of the food expenditure which is not represented would show the same tendency as that which is.

The application of the price figures to the consumption of clothing has been one of considerable difficulty. We are met at the outset by the fact that while the consumption as indicated in the table gives the expenditure for certain garments, the prices comprise mainly the materials out of which the garments are made. Thus we are forced to substitute the materials for the garments. A more serious difficulty arises from the fact that there are but 28 articles in the long list of prices for cloths and clothing which cover the period from 1860 to the present time. Some of these further are inapplicable to the calculations which we have in hand. They are the prices of raw wool, raw cotton, and of carpets. Besides these it has been deemed necessary to omit from our calculations the prices of broadcloths as being an article no longer in common use, and of so limited consumption that it is not indicative of the course of prices for the average consumer. This reduces further the number of quotations covering the period from 1860 to 1890 which are available for the comparisons which we have in hand. In

order to avail ourselves of the very large number of articles included in the list of cloths and clothing a special calculation for this group has been made upon the basis of 1890, the prices in that year being expressed as 100, the prices of previous years representing percentages of the same. Our series is, therefore, exactly the reverse of that which is used in the other calculations. But by adopting this method as a basis we are able to include, at least so far as the quotations reach, all the quotations in the list. The facts developed by this analysis are given in the following table:

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP I.—SUITINGS—Concluded.

Year.	Suitings.		Cassimeres.				Checks, black and white, all wool, 3-4, 7-ounce, Harris.	Overcoatings.		Average.
	Worsted, Birdseye, 6-4, 18 to 19-ounce, Riverside.	Worsted, Birdseye, 6-4, 23 to 24-ounce, Riverside.	All wool, fancy, heavy weight.	All wool, fancy, light weight.	All wool, 3-4, 12- ounce, Harris silk mixed.	All wool, 3-4, fancy, heavy weight.		Elysian, all wool, 6-4, 32-ounce, Har- ris.	Rattine, all wool, 6-4, 32-ounce, Har- ris.	
1860.....					136.3		114.7			122.7
1861.....					136.3		114.7			122.7
1862.....					146.0	148.4	124.3			136.6
1863.....					173.4		167.3			179.4
1864.....					192.7	270.4	167.3			205.5
1865.....					250.5	234.9	191.2			222.8
1866.....					221.6	190.3	191.2			204.1
1867.....					192.7	170.0	147.6			170.7
1868.....					192.7	162.3	147.6			166.5
1869.....					173.4		147.6			144.9
1870.....					173.4		147.6			141.8
1871.....					173.4	160.0	158.9			149.0
1872.....					192.7	157.3	158.9			157.7
1873.....					154.2	158.6	158.9			153.1
1874.....			154.0	153.5	173.4		136.2			145.1
1875.....			150.8	145.9	163.8		136.2			137.1
1876.....			135.7	126.7	154.2		102.2	117.3	129.0	122.8
1877.....			128.2	124.7	125.3		102.2	117.3	129.0	115.6
1878.....			108.6	115.2	106.0		102.2	117.3	129.0	109.5
1879.....		110.3	105.6	118.2				104.3	114.7	107.2
1880.....	105.3	130.3	150.8	126.3						117.7
1881.....	105.3	110.3	132.1	117.7		122.1				113.5
1882.....	105.3	110.3	132.1	117.7		128.2				113.9
1883.....	105.3	110.3	117.5	112.1						109.5
1884.....	100.0	104.8	105.7	102.6	123.9	102.9	134.8			108.0
1885.....	100.0	104.8	95.4	97.2	114.4	101.7	112.3	107.5	118.3	103.8
1886.....	105.3	110.3	102.8	102.6	123.9	107.8	101.1	107.5	118.3	106.1
1887.....	105.3	104.8	105.7	102.6	122.6	99.6	100.0	107.5	107.5	104.2
1888.....	100.0	100.0	102.8	99.0	113.2	106.4	100.0	100.0	100.0	101.0
1889.....	100.0	100.0	100.0	100.0	103.8	104.1	100.0	100.0	100.0	100.4
1890.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891.....	100.0	100.0	100.0	100.0	94.3		94.4	100.0	100.0	99.4

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP II.—CARPETS.

Year.	Carpets.			Average.
	Brussels, 5-frame, Bigelow.	Brussels, 5-frame, Lowell.	Ingrain, 2-ply, Lowell.	
1860.....	120.9	.....	133.3	127.1
1861.....	111.6	.....	135.2	123.4
1862.....	120.9	.....	142.1	131.5
1863.....	162.8	.....	199.1	186.0
1864.....	200.0	.....	239.1	219.6
1865.....	325.6	.....	347.3	337.0
1866.....	255.8	.....	322.1	289.0
1867.....	255.8	.....	319.3	287.6
1868.....	223.3	.....	238.5	230.9
1869.....	232.6	.....	230.4	231.5
1870.....	232.6	.....	220.0	226.3
1871.....	186.0	.....	203.5	194.8
1872.....	200.0	206.4	228.0	211.5
1873.....	195.3	168.6	211.9	191.9
1874.....	186.0	184.2	193.4	187.9
1875.....	186.0	180.5	175.1	180.5
1876.....	186.0	187.9	174.2	182.7
1877.....	162.8	168.0	154.7	161.8
1878.....	144.2	123.5	142.4	136.7
1879.....	132.6	125.9	118.1	125.5
1880.....	127.9	129.2	157.0	138.0
1881.....	134.9	126.2	141.4	134.2
1882.....	125.6	128.1	147.6	133.8
1883.....	125.6	127.2	146.7	133.2
1884.....	118.6	119.9	124.3	120.9
1885.....	111.6	106.3	109.0	109.0
1886.....	104.7	106.2	120.4	110.4
1887.....	104.7	106.3	114.6	108.5
1888.....	102.3	102.7	104.6	103.2
1889.....	100.0	100.2	100.2	100.1
1890.....	100.0	100.0	100.0	100.0
1891.....	109.3	108.7	104.5	107.5

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP III.—BLANKETS AND FLANNELS.

Year.	Blankets.						
	10-4, Housekeeper, white, all wool.	11-4, 5 pounds to the pair, cotton warp, cotton and wool filling.	11-4, 5 pounds to the pair, cotton warp, cotton and wool filling.	11-4, 5 pounds to the pair, cotton warp, all wool filling.	11-4, 5 pounds to the pair, cotton warp, all wool filling.	11-4, 7 pounds to the pair, all wool, California.	11-4, 5 pounds to the pair, cotton warp, all wool filling, scarlet.
1860			130.4	120.7			
1861			119.6	112.1			
1862			141.3	129.3			
1863			156.5	134.5			
1864			156.5	137.9			
1865				146.6			
1866				129.3			
1867				120.7			
1868				112.1			
1869				113.8			
1870				113.8			
1871				117.2			
1872				134.5			
1873				146.6		112.9	147.5
1874				137.9	129.2	109.7	142.4
1875				137.9	132.3	111.0	140.7
1876				124.1	121.5	108.4	120.3
1877				110.3	107.7	102.6	108.5
1878	119.3			103.4	101.5	96.8	100.0
1879	126.3	112.1	108.7	103.4	103.1	98.1	103.4
1880	157.9	124.2	121.7	115.5	115.4	101.9	115.3
1881	140.4	118.2	115.2	110.3	109.2	87.1	108.5
1882	126.3	112.1	108.7	105.2	104.6	90.3	105.1
1883	119.3	100.0	100.0	100.0	101.5	93.5	98.3
1884	105.3	90.9	89.1	93.1	95.4	96.8	89.8
1885	105.3	100.0	97.8	94.8	95.4	96.8	91.5
1886	119.3	103.0	104.3	100.0	100.0	100.0	96.6
1887	109.5	103.0	100.0	100.0	100.0	103.2	101.7
1888	105.3	103.0	100.0	100.0	100.0	100.0	103.4
1889	105.3	106.1	104.3	103.4	103.1	103.2	105.1
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	97.5	100.0	100.0	100.0	100.0	96.8	100.0

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP III.—BLANKETS AND FLANNELS—Concluded.

Year.	Flannels.			Blankets.		Horse blankets.				Average.
	Twilled blue, 3-4, Tal- bot T.	Twilled scarlet, 3-4, F and C.	White, 4-4, Ballard Vale, No. 3.	11-4, 5 pounds to the pair, all wool.	11-4, 6 pounds to the pair, cotton and wool warp, all wool filling, California.	5 pounds, cotton warp, shoddy filling.	6 pounds, cotton warp, shoddy and wool fill- ing.	6 pounds, all wool.	7 pounds, all wool.	
1860.....								118.4		123.2
1861.....								108.8		113.5
1862.....								123.2		131.3
1863.....								128.0		139.7
1864.....								129.6		141.3
1865.....								144.0		145.3
1866.....								131.2		130.3
1867.....								120.0		120.4
1868.....								112.0		112.1
1869.....								118.4		116.1
1870.....	138.5							113.6		122.0
1871.....	145.7							118.4		127.1
1872.....	163.2							132.8		148.4
1873.....	171.0							144.0		148.8
1874.....	144.1	144.1						121.6		132.7
1875.....	136.4	136.4						132.8	127.9	131.9
1876.....	124.4	124.4						118.4	114.7	119.5
1877.....	108.1	108.1						108.8	105.9	107.5
1878.....	108.1	108.1						102.4	101.5	104.6
1879.....	97.2	97.2	105.3					96.0	97.1	104.0
1880.....	123.1	123.1	105.3	109.9	91.7	81.0	78.6	126.4	125.0	113.5
1881.....	130.8	130.8	105.3	107.7	91.7	71.4	83.3	118.4	117.6	109.1
1882.....	123.1	123.1	105.3	107.7	87.5	76.2	85.7	115.2	111.8	105.5
1883.....	119.8	119.8	105.3	103.3	83.3	76.2	88.1	110.4	105.9	101.5
1884.....	110.9	110.9	105.3	98.9	83.3	83.3	90.5	96.0	95.6	95.9
1885.....	102.0	102.0	105.3	101.1	83.3	85.7	90.5	88.0	88.2	95.5
1886.....	104.5	104.5	100.0	101.1	91.7	90.5	92.9	104.0	101.5	100.9
1887.....	100.0	100.0	100.0	98.9	104.2	95.2	95.2	99.2	102.9	100.8
1888.....	97.2	97.2	100.0	100.0	102.1	95.2	95.2	94.4	101.5	99.7
1889.....	100.0	100.0	100.0	102.2	106.3	95.2	97.6	99.2	102.9	102.1
1890.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891.....	97.4	97.4	100.0	97.8	95.8	104.8	95.2	96.0	98.5	98.6

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP IV.—COTTON TEXTILES.

Year.	Calico, Cocheoprints.	Denims, Amoskeag.	Drillings, 30-inch, Poperell.	Print cloths, 28-inch, 64 by 64, Metacommet.	Print cloths, 28-inch, 7 yards to the pound, standard.	Sheetings, brown, 4-4, Atlantic A.	Shirtings, bleached, 4-4, New York Mills.	Tickings, Amoskeag, A. C. A.	Cotton thread, six-cord, 200 yards, J. and P. Coats.	Shirtings, bleached, 4-4, Lonsdale.
1860.....	146.2	123.4	125.3	153.6	157.9	120.3	142.7	141.7	.....	.....
1861.....	146.2	127.7	121.9	132.1	133.3	123.8	138.1	135.4	.....	.....
1862.....	192.3	153.2	183.0	164.3	252.6	197.9	156.5	172.9	122.0	.....
1863.....	307.7	319.1	387.0	428.6	400.0	428.6	299.2	377.1	219.6	354.4
1864.....	369.2	468.1	563.0	485.7	477.2	607.1	380.4	.....	244.0	423.0
1865.....	569.2	572.3	844.4	825.0	757.9	857.1	587.0	639.6	366.0	485.8
1866.....	415.4	461.7	457.4	553.6	547.4	471.0	457.4	656.3	280.6	457.3
1867.....	292.3	331.1	316.7	346.4	336.8	314.3	372.2	483.3	280.6	325.8
1868.....	207.7	212.8	211.1	185.7	182.5	214.3	260.5	314.6	244.0	182.9
1869.....	207.7	229.8	232.2	228.6	252.6	228.6	255.9	258.3	219.6	205.8
1870.....	215.4	227.7	232.2	217.9	228.1	228.6	209.4	266.7	219.6	205.8
1871.....	176.9	204.3	190.0	203.6	210.5	185.7	186.1	231.3	184.9	171.5
1872.....	184.6	191.5	204.1	217.9	214.0	192.9	193.4	227.1	184.9	205.8
1873.....	184.6	185.1	211.1	210.7	210.5	200.0	193.4	216.7	184.9	188.6
1874.....	176.9	174.5	170.4	164.3	171.9	171.4	176.8	204.2	164.5	165.5
1875.....	146.2	155.3	159.3	139.3	147.4	150.1	139.6	187.5	164.5	139.4
1876.....	130.8	151.1	140.7	121.4	117.6	135.8	130.3	164.6	156.0	122.6
1877.....	115.4	125.5	122.2	139.3	136.7	128.6	121.0	129.2	150.3	122.6
1878.....	107.7	127.7	118.5	110.7	99.9	117.9	107.1	125.0	132.9	102.9
1879.....	92.3	123.4	103.7	92.9	89.5	100.0	97.7	116.7	127.1	94.2
1880.....	115.4	123.4	129.6	142.9	136.8	128.6	121.0	125.0	127.1	120.1
1881.....	107.7	123.4	118.5	119.6	119.3	121.4	116.3	133.3	127.1	114.3
1882.....	107.7	129.8	118.5	107.1	112.3	125.0	121.0	137.5	127.1	120.1
1883.....	100.0	121.3	122.2	98.2	103.6	114.3	111.7	129.2	120.1	108.7
1884.....	96.2	108.5	103.7	98.2	96.6	103.6	97.7	108.3	120.1	96.3
1885.....	92.3	104.3	96.3	91.1	89.5	103.6	91.6	97.9	120.1	88.6
1886.....	92.3	100.0	92.6	92.9	87.7	96.4	95.3	93.8	120.1	91.5
1887.....	92.3	108.5	92.6	96.4	94.7	96.4	99.8	108.3	120.1	97.2
1888.....	92.3	106.4	100.0	107.1	101.8	103.6	99.8	106.3	120.1	102.9
1889.....	100.0	104.3	100.0	112.5	110.5	100.0	97.7	100.0	120.1	97.1
1890.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891.....	92.3	100.0	96.3	85.7	84.2	100.0	102.4	100.0	98.3	97.2

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP IV.—COTTON TEXTILES—Continued.

Years.	Shirtings, bleached, 4-4, Hope.	Ginghams, Lancaster staple.	Sheetings, brown, 4-4, Lawrence LL.	Cotton thread, six-cord, 200 yards, Willimantic.	Hosiery: women's cotton stockings, bleached and unbleached, cut feet, circular made, 28 gauge, weighing 24 ounces to the dozen.	Ginghams, Amoskeag.	Bags, 2-bushel.		Sheetings, bleached.	
							Amoskeag.	Stark A.	10-4, Pepperell.	4-4, Langdon G. B.
1860.....										
1861.....										
1862.....										
1863.....										
1864.....										
1865.....										
1866.....	493.7	370.4								
1867.....	300.3	340.7								
1868.....	173.5	237.0	206.8	211.6						
1869.....	206.9	251.9	227.7	211.6	278.8					
1870.....	166.9	222.2	223.3	189.4	249.4	256.0	239.7	218.9		
1871.....	166.9	222.2	174.0	167.1	190.7	220.0	173.0	183.8	175.9	
1872.....	200.1	207.4	202.0	155.9	187.1	216.0	181.0	182.4	175.9	198.6
1873.....	186.8	207.4	208.8	155.9	183.4	208.0	182.5	179.7	160.5	188.4
1874.....	166.9	185.2	165.4	155.9	168.7	188.0	184.1	170.9	160.5	194.2
1875.....	133.4	170.4	139.2	155.9	146.7	168.0	168.3	161.5	145.8	172.5
1876.....	116.7	170.4	139.2	150.2	124.7	168.0	128.6	138.5	139.2	142.0
1877.....	120.1	140.7	117.4	150.2	124.7	132.0	111.1	117.6	119.9	113.0
1878.....	105.6	133.3	113.2	150.2	110.0	136.0	114.3	127.0	104.2	118.8
1879.....	93.4	125.9	100.0	128.1	91.7	136.0	114.3	108.8	92.6	104.3
1880.....	126.8	148.1	126.2	128.1	113.7	136.0	114.3	110.1	120.8	108.7
1881.....	116.7	148.1	121.8	128.1	113.7	136.0	111.1	116.2	120.8	118.8
1882.....	117.3	148.1	121.8	128.1	113.7	156.0	115.9	121.6	114.6	129.0
1883.....	106.7	125.9	113.2	117.0	110.0	128.0	120.6	120.9	120.8	117.4
1884.....	93.1	118.5	104.4	117.0	110.0	112.0	114.3	110.8	104.2	108.7
1885.....	90.0	107.4	95.6	117.0	110.0	104.0	106.3	109.5	92.6	97.1
1886.....	93.4	107.4	87.0	117.0	100.0	104.0	92.1	106.8	90.3	91.3
1887.....	100.0	111.1	94.0	117.0	103.4	112.0	92.1	105.4	87.5	92.8
1888.....	106.7	114.8	100.0	117.0	103.4	108.0	95.2	106.8	100.0	101.4
1889.....	103.4	103.7	100.0	117.0	100.0	104.0	100.0	103.4	104.2	108.7
1890.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891.....	100.0	103.7	96.2	95.7	103.4	104.0	100.0	104.7	92.6	101.4

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP IV.—COTTON TEXTILES—Concluded.

Years.	Sheetings, brown, 4-4, Peperell R.	Shirtings, bleached, 4-4, Fruit of the Loom.	Cotton flannels.		Sheetings, bleached, 10-4, Pequot.	Underwear, cotton shirts and drawers, white, full fashioned, 24 gauge.	Drillings, Stark A.	Average.
			2 yards to the pound, Lawrence.	3½ yards to the pound, Lawrence.				
1860.....								138.9
1861.....								132.3
1862.....								177.2
1863.....								352.1
1864.....								446.4
1865.....								650.4
1866.....								468.5
1867.....								336.7
1868.....						201.5		216.4
1869.....						201.5	236.9	231.4
1870.....						182.3	241.2	222.0
1871.....	185.2					182.3	182.7	189.5
1872.....	185.2	182.9				191.4	204.6	195.3
1873.....	200.0	182.9				175.6	213.5	192.5
1874.....	155.6	165.7			162.7	175.6	176.9	172.7
1875.....	140.7	142.9	134.7		159.5	141.4	161.5	152.7
1876.....	133.3	120.0			121.8	136.4	138.5	137.5
1877.....	118.5	114.3			117.0	131.3	123.1	125.7
1878.....	107.4	102.9			98.5	121.2	119.2	116.5
1879.....	96.3	97.1	107.6		93.3	101.0	103.8	105.1
1880.....	125.9	125.7		123.7	127.9	111.1	130.8	124.9
1881.....	114.8	120.0	121.6	116.8	117.0	111.1	123.1	120.6
1882.....	107.4	120.0	128.0	124.0	124.4	111.1	126.9	122.7
1883.....	114.8	108.6	134.7	123.2	124.4	111.1	115.4	116.4
1884.....	96.3	100.0	116.9	114.5	121.2	106.1	107.7	106.8
1885.....	96.3	93.3	107.6	99.2	98.5	96.0	100.0	99.8
1886.....	88.9	89.2	98.2	95.4	85.1	90.9	96.2	96.1
1887.....	92.6	97.1	100.6	99.2	93.3	88.4	100.0	99.7
1888.....	100.0	105.7	100.6	103.1	100.0	101.0	103.8	104.0
1889.....	103.7	100.0	105.2	105.2	100.0	100.0	103.8	103.9
1890.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891.....	92.6	100.0	95.0	100.0	100.0	100.0	103.8	98.1

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP V.—LEATHER AND SHOE WEAR.

Year.	Boots and shoes.				Hides, dry, Buenos Ayres.	Leather, calfskins.					
	Men's brogans, leather.	Men's fine kip boots, $\frac{1}{2}$ double sole.	Men's split boots, kip top, 16-inch, $\frac{1}{2}$ double sole.	Women's solid grain shoes, leather, polish or polka.		Tanned and dressed, domestic, No. 1.	Tanned and dressed, domestic, No. 2.	Tanned and dressed, domestic, No. 3.	Tanned and dressed, 27 to 28 pounds to the dozen, French, J. Griffon & Co.	Tanned and dressed, 27 to 28 pounds to the dozen, French, Laven.	Tanned and dressed, 27 to 28 pounds to the dozen, German, C. Simon.
1860					172.0						
1861					141.6						
1862					174.6						
1863					203.0						
1864					236.0						
1865				264.7	201.1						
1866	157.1				194.7						
1867	157.1			205.9	198.2						
1868	142.9			191.2	205.0						
1869	142.9				207.2	171.4	174.0	177.8			
1870	142.9			161.8	192.6	165.7	170.0	183.3			
1871	135.2				198.0	171.4	165.0				
1872	135.2	181.0		138.2	211.0	142.9	140.0				
1873	133.3				211.3	142.9		144.4			
1874	133.3				204.7	146.7	140.0				
1875	133.3			132.4	179.1	123.8	126.0	133.3		158.3	136.4
1876	128.6			123.5	154.6	138.1	140.0			154.2	127.3
1877	128.6	147.6	141.2		166.3	161.9	160.0	155.6		141.7	122.7
1878	104.8	138.1	123.5	117.6	146.5	148.6	146.0		108.7	137.5	122.7
1879	121.4	121.4	123.5		148.3	123.8	123.0	133.3	104.3	133.3	115.5
1880	123.8	123.8	126.5	111.8	170.1	114.3	115.0	122.2	104.3	129.2	118.2
1881	123.8	142.9	126.5		167.6	128.6	130.0		108.7	129.2	122.7
1882	121.4	140.5	123.5	108.8	172.8	161.9	160.0		108.7	125.0	122.7
1883	119.0	140.5	123.5		166.2		170.0		108.7	122.9	118.2
1884	114.3	128.6	120.6	106.5	168.4	152.4	150.0		104.3	122.9	112.7
1885	114.3	123.8	117.6	102.9	161.5	157.1	160.0	160.0	104.3	120.8	112.7
1886	111.9	119.0	117.6		148.3	123.8	125.0	133.3	104.3	120.8	112.7
1887	109.5	119.0	117.6	97.1	135.1	152.4	150.0	155.6	104.3	116.7	112.7
1888	107.1	111.9	108.8		120.5		140.0	116.7	100.0	112.5	104.5
1889	102.4	109.5	108.8	94.1	114.0	133.3	135.0	116.7	100.0	104.2	104.5
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	100.0	100.0	94.1		123.8	125.0	133.3	100.0	95.8	104.5

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP V.—LEATHER AND SHOE WEAR—Concluded.

Year.	Leather, calfskins.							Leather.		Average.
	Tanned and dressed, 27 to 28 pounds to the dozen, Swiss, J. J. Mercier.	Tanned and dressed, 27 to 28 pounds to the dozen, Swiss, H. Suser.	Tanned and dressed, 32 pounds to the dozen, French, J. Griffon & Co.	Tanned and dressed, 32 pounds to the dozen, French, Laven.	Tanned and dressed, 32 pounds to the dozen, German, C. Simon.	Tanned and dressed, 32 pounds to the dozen, Swiss, J. J. Mercier.	Tanned and dressed, 32 pounds to the dozen, Swiss, H. Suser.	Harness.	Sole, first quality, medium weight, Buenos Ayres.	
1860.....								116.7	111.4	133.4
1861.....								110.0	100.4	117.3
1862.....								110.0	121.1	135.2
1863.....								126.7	156.4	162.0
1864.....								166.7	202.4	201.7
1865.....								200.0	189.3	213.8
1866.....								173.3	180.7	176.5
1867.....								170.0	157.9	177.8
1868.....								160.0	143.8	168.6
1869.....								156.7	156.8	169.5
1870.....								153.3	153.5	165.4
1871.....								146.7	148.3	160.8
1872.....								136.7	146.7	154.0
1873.....								146.7	150.8	154.9
1874.....								140.0	151.1	152.6
1875.....	140.0	141.8		159.6	136.4	148.1	141.8	123.3	145.2	141.2
1876.....	133.3	123.7		153.2	127.3	140.7	134.0	120.0	131.2	135.3
1877.....	130.0	114.2		140.4	122.7	133.3	118.6	116.7	131.3	137.2
1878.....	126.7	109.8	108.7	136.2	122.7	129.6	110.3	116.7	109.7	124.4
1879.....	120.0	105.7	104.3	131.9	115.5	125.9	105.2	106.7	117.7	120.0
1880.....	120.0	105.7	104.3	131.9	118.2	125.9	108.2	136.7	134.1	122.2
1881.....	120.0	109.0	108.7	131.9	122.7	125.9	108.2	133.3	129.7	126.1
1882.....	120.0	106.7	108.7	125.5	122.7	124.1	108.2	126.7	130.5	127.3
1883.....	118.3	104.1	108.7	123.4	118.2	124.1	106.2	120.0	129.2	124.8
1884.....	118.3	98.7	104.3	123.4	112.7	122.2	97.9	120.0	133.4	121.7
1885.....	116.7	102.1	104.3	121.3	112.7	122.2	103.1	113.3	124.1	122.7
1886.....	116.7	106.2	104.3	121.3	112.7	122.2	106.2	113.3	120.5	117.9
1887.....	113.3	106.2	104.3	114.9	112.7	120.4	106.2	113.3	111.6	118.6
1888.....	110.0	103.1	100.0	112.8	104.5	118.5	103.1	110.0	106.1	110.6
1889.....	106.7	101.0	100.0	106.4	104.5	107.4	101.0	110.0	99.8	108.0
1890.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891.....	96.7		100.0	97.9	104.5	96.3		100.0		104.5

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP VI.—DRESS GOODS.

Women's dress goods.													Average.
Year.	Cotton warp alpaca, 22-inch, Hamilton.	Cotton warp cash- mere, 22-inch, Hamilton.	Cotton warp cash- mere, 27-inch, Hamilton.	Cotton warp cash- mere, 54-inch.	Cotton warp cash- mere, 9 twill, 4-4, Atlantic Mills F.	All wool cashmere, 10-11 twill, 38-inch, imported.	All wool ladies' cloth, 3-4, Assabet Rob Roy.	All wool ladies' cloth, 25-inch, As- sabet Opera.	All wool ladies' cloth, 6-4, Assa- bet.	Cashmere, 3-4, Pa- cific.	Brocade, 3-4, Pacific.	Poplin luster, 3-4, Pacific.	
1860													
1861													
1862													
1863													
1864													
1865													
1866													
1867							181.1						181.1
1868							143.2						143.2
1869							145.3				231.6	240.0	205.6
1870							136.8				247.4	240.0	208.1
1871							147.4				247.4	240.0	211.6
1872							185.3	174.8					180.1
1873				112.0			145.3	174.8			221.1	266.7	184.0
1874				112.0			143.2	135.9					130.4
1875				112.0			140.0	144.7			221.1	240.0	171.6
1876				112.0			126.3	129.1					122.5
1877				112.0			124.2	119.4			236.8	200.0	158.5
1878				112.0			113.7		154.3		219.5	166.7	151.4
1879				108.0			111.6	113.6	138.9	147.0	189.5	160.0	138.4
1880	144.8	133.3	145.0	100.0	139.2	140.8	144.2	110.7	162.4	153.8	189.5	160.0	144.1
1881	137.9	133.3		100.0	121.6	135.2	132.6	129.1	154.3	147.0	173.7	153.3	138.0
1882	119.0	116.7		100.0	121.6	135.2	132.6	129.1	154.3	129.4	121.1	133.3	126.6
1883	103.4	115.2	115.0	100.0	123.0	135.2	132.6	122.3	146.6				121.5
1884	113.8	121.2		96.0	121.6	135.2	113.7	116.5	138.0	117.6	105.3	116.7	117.8
1885	110.3	109.1	107.5	100.0	101.4	125.4	108.4	104.9	113.7	100.0	89.5	113.3	107.0
1886	96.6	97.0	100.0	100.0	102.7	102.8	108.4	104.9	108.1				102.3
1887	113.8	115.2	115.0	100.0	100.0	102.8	108.4	104.9	108.1	111.8	100.0	110.0	107.5
1888	117.2	115.2	110.0	96.0	100.0	100.0	100.0	104.9	105.6	100.0	94.7	106.7	104.2
1889	93.1	93.9	95.0	100.0	100.0	93.0	100.0	104.9	103.8	82.4	94.7	93.3	96.2
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	103.4	103.0	100.0	100.0	100.0	100.0	100.0	100.0	105.6	100.0	100.0	100.0	101.0

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Continued.*

GROUP VII.—SILKS.

Year.	Silks: black, Cachemire, Alexandra.							Average.
	No. 6, Alexandre Giraud & Co.	No. 7, Alexandre Giraud & Co.	No. 8, Alexandre Giraud & Co.	No. 9, Alexandre Giraud & Co.	No. 10, Alexandre Giraud & Co.	No. 11, Alexandre Giraud & Co.	No. 12, Alexandre Giraud & Co.	
1860								
1861								
1862								
1863								
1864								
1865								
1866								
1867								
1868								
1869								
1870								
1871	190.9	178.5	200.5	186.0	193.7			189.9
1872	190.9	183.3	203.8	185.6	189.9	187.0	180.6	188.7
1873	180.5	172.6	191.8	177.0	182.3	178.2		180.4
1874	179.9	172.0	188.0	172.1	178.5	177.4		177.9
1875	163.4	155.4	172.1	155.4	158.6	158.2	159.1	160.3
1876	172.0	164.0	180.3	161.7	163.7			168.3
1877	144.5	137.1	151.9	136.5	131.2			140.2
1878	140.9	133.9	144.3	130.2	131.2	128.7	125.8	133.6
1879	150.0	144.1	159.6	147.7	142.6	140.6	141.9	146.6
1880	132.9	127.4	141.5	124.8	127.8	125.3	128.0	129.7
1881	122.6	119.4	129.5	117.6	119.8	118.4	121.1	121.2
1882	117.7	114.5	128.4	117.6	119.8	119.9	121.1	119.9
1883	117.7	112.9	124.6	113.1	115.2	113.0	113.6	115.7
1884	107.3	109.1	118.6	108.6	111.0	107.7	109.3	110.2
1885	106.1	104.3	119.7	105.4	105.5	105.7	106.8	107.6
1886			119.1	109.9		110.7	109.0	112.2
1887		114.0	127.9	114.4	118.1		113.6	117.6
1888			122.4	109.9	110.5	105.7	105.4	110.8
1889		110.2	119.7	108.1	109.7	108.0	110.0	111.0
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	91.4	100.0	90.5	89.5	92.3	96.8	94.4

GROUP VIII.—LINEN GOODS.

Year.	Linen goods, thread.					Year.	Linen goods, thread.				
	Shoe, 10-s, Barbour.	Shoe, 10-s, Marshall.	3-cord, 200 yards, Barbour.	3-cord, 200 yards, Marshall.	Average.		Shoe, 10-s, Barbour.	Shoe, 10-s, Marshall.	3-cord, 200 yards, Barbour.	3-cord, 200 yards, Marshall.	Average.
1860						1876	90.0	89.5	120.0	160.6	115.0
1861						1877	90.0	89.5	120.0	150.7	112.6
1862						1878	90.0	88.4	120.0	126.8	106.3
1863						1879	80.0	88.4	120.0	119.7	102.0
1864						1880	90.0	88.4	120.0	112.7	102.8
1865						1881	90.0	88.4	90.0	107.0	93.9
1866						1882	90.0	88.4	96.7	107.0	95.5
1867						1883	90.0	86.0	96.7	107.0	94.9
1868						1884	90.0	83.7	96.7	107.0	94.4
1869						1885	90.0	88.4	96.7	114.1	97.3
1870		81.4		152.1	116.8	1886	90.0	88.4	96.7	104.2	94.8
1871	84.4	86.0	122.2	152.1	111.2	1887	90.0	88.4	96.7	104.2	94.8
1872	84.4	86.0	122.2	152.1	111.2	1888	90.0	88.4	90.0	104.2	93.2
1873	84.4	86.0	122.2	140.8	108.4	1889	90.0	100.0	90.0	116.9	99.2
1874	84.4	86.0	122.2	140.8	108.4	1890	100.0	100.0	100.0	100.0	100.0
1875	84.4	86.0	104.4	132.4	101.8	1891	100.0	100.0	100.0	100.0	100.0

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890—Concluded.*

GROUP IX.—UNDERWEAR.

Year.	Hosiery: half hose, heavy merino, full-fashioned.	Underwear.			Average.	Year.	Hosiery: half hose, heavy merino, full-fashioned.	Underwear.			Average.
		Men's shirts and drawers, 14-16 gauge, scarlet, all wool, 10 pounds to the dozen, 40-inch shirts, plain finish.	Shirts and drawers, white, all wool, full-fashioned, 18 gauge.	Merino shirts and drawers, white, full-fashioned, 52 per cent. wool, 48 per cent. cotton, 24 gauge.				Men's shirts and drawers, 14-16 gauge, scarlet, all wool, 10 pounds to the dozen, 40-inch shirts, plain finish.	Shirts and drawers, white, all wool, full-fashioned, 18 gauge.	Merino shirts and drawers, white, full-fashioned, 52 per cent. wool, 48 per cent. cotton, 24 gauge.	
1860.....						1876.....	189.5	154.8	153.5	143.7	160.4
1861.....						1877.....	178.9	141.9	137.4	132.1	147.6
1862.....						1878.....	151.6	135.5	137.4	120.1	136.2
1863.....						1879.....	147.4	129.0	109.1	108.1	123.4
1864.....						1880.....	157.9	129.0	122.8	123.1	133.2
1865.....						1881.....	115.8	129.0	121.2	114.1	120.0
1866.....						1882.....	115.8	122.6	113.1	120.1	117.9
1867.....						1883.....	115.8	122.6	113.1	120.1	117.9
1868.....			138.2	182.6	160.4	1884.....	115.8	116.1	101.0	120.1	113.3
1869.....			138.2	182.6	160.4	1885.....	105.3	109.7	97.0	111.1	105.8
1870.....			138.2	171.2	154.7	1886.....	110.5	109.7	101.0	111.1	108.1
1871.....	168.4	258.1	145.5	168.0	185.0	1887.....	110.5	103.2	97.0	102.1	103.2
1872.....	189.5	232.3	155.0	171.3	162.0	1888.....	110.5	103.2	101.0	105.1	105.0
1873.....	178.9	219.4	153.1	154.5	176.5	1889.....	100.0	103.2	100.0	100.0	100.8
1874.....	189.5	193.5	153.1	154.5	172.7	1890.....	100.0	100.0	100.0	100.0	100.0
1875.....	189.5	174.2	137.4	154.5	163.9	1891.....	100.0	96.8	103.6	105.4	101.5

SUMMARY.

Year.	Group I.—Suits.	Group II.—Carpets.	Group III.—Blankets and flannels.	Group IV.—Cotton textiles.	Group V.—Leather and shoe wear.	Group VI.—Women's dress goods.	Group VII.—Silks.	Group VIII.—Linen goods.	Group IX.—Underwear.	General average of all articles.
1860.....	122.7	127.1	123.2	138.9	133.4					131.8
1861.....	122.7	123.4	113.5	132.3	117.3					124.4
1862.....	136.6	131.5	131.3	177.2	135.2					151.8
1863.....	179.4	186.0	139.7	352.1	162.0					250.3
1864.....	205.5	219.6	141.3	446.4	201.7					296.1
1865.....	222.8	337.0	145.3	650.4	213.8					410.3
1866.....	204.1	289.0	130.3	468.5	176.5					327.5
1867.....	170.7	287.6	120.4	336.7	177.8	181.1				251.1
1868.....	166.5	230.9	112.1	216.4	168.6	143.2			160.4	189.7
1869.....	144.9	231.5	116.1	231.4	169.5	205.6			160.4	195.5
1870.....	141.8	226.3	122.0	222.0	165.4	208.1		116.8	154.7	186.0
1871.....	149.0	194.8	127.1	189.5	160.8	211.6	189.9	111.2	185.0	172.7
1872.....	157.7	211.5	148.4	195.3	154.0	180.1	188.7	111.2	162.0	174.2
1873.....	153.1	191.9	148.8	192.5	154.9	184.0	180.4	108.4	176.5	171.6
1874.....	145.1	187.9	132.7	171.0	152.6	130.4	177.9	108.4	172.7	157.8
1875.....	137.1	180.5	131.9	151.5	141.2	171.6	160.3	101.8	163.9	147.1
1876.....	122.8	182.7	119.5	136.8	135.3	122.5	168.3	115.0	160.4	135.5
1877.....	115.6	161.8	107.5	125.4	137.2	158.5	140.2	112.6	147.6	128.8
1878.....	109.5	136.7	104.6	116.6	124.4	151.4	133.6	106.3	136.2	120.0
1879.....	107.2	125.5	104.0	105.6	120.0	138.4	146.6	102.0	123.4	114.9
1880.....	117.7	138.0	113.5	124.7	122.2	144.1	129.7	102.8	133.2	124.1
1881.....	113.5	134.2	109.1	120.6	126.1	138.0	121.2	93.9	120.0	120.0
1882.....	113.9	133.8	105.5	122.3	127.3	126.6	119.9	95.5	117.9	119.0
1883.....	109.5	133.2	101.5	116.1	124.8	121.5	115.7	94.9	117.9	114.6
1884.....	108.0	120.9	95.9	106.9	121.7	117.8	110.2	94.4	113.3	109.5
1885.....	103.8	109.0	95.5	100.0	122.7	107.0	107.6	97.3	105.8	105.5
1886.....	106.1	110.4	100.9	96.4	117.9	102.3	112.2	94.8	108.1	104.6
1887.....	104.2	108.5	100.8	99.9	118.6	107.5	117.6	94.8	103.2	105.9
1888.....	101.0	103.2	99.7	104.0	110.6	104.2	110.8	93.2	105.0	103.8
1889.....	100.4	100.1	102.1	103.8	108.0	96.2	111.0	99.2	100.8	102.9
1890.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891.....	99.4	107.5	98.6	98.2	104.5	101.0	94.4	100.0	101.5	99.9

In this table the articles are not arranged in the order in which they are found in the main tables of the report, but have been grouped so as to facilitate their use in the comparisons which we have in view. The averages for the different groups are based upon a continually growing number of quotations. As the year 1890 is approached, they are much more numerous than in the period immediately following 1860. The formation of averages from a varying number of quotations is admissible in this case, inasmuch as articles of a similar nature have been classed together. In the form in which they now stand these figures cannot be applied to the measurement of the relative price in 1891, in conjunction with the calculation already made for food, because of the different base line. In order, therefore, to make them comparable with the food figures, we have reversed the series by taking the average for 1860 as the basis and expressing the subsequent terms of the series as percentages of this amount. We may illustrate this by the group, suitings. In that group the average for 1860 on the basis of 1890 is 122.7. If this be termed 100, then the price in 1890 becomes 81.5. It may be objected to this method that, so far as the extremes of the table are concerned—that is, the years 1860 and 1890—they are in reality based on exactly the same figures as would be a calculation based upon the four articles of suitings whose price goes back to 1860.

Some greater degree of accuracy may, it is true, be obtained in the intermediate figures, but the extremes might as well have been taken from the few articles whose price covers the entire period in question. There can be no contesting the mathematical accuracy of this statement. There can be no doubt that the extremes are the same by both methods. It is obvious that if there has been any different movement of prices among the articles whose price is quoted for a shorter period than in the four articles covering the entire period that it is not expressed in any way by the method we have adopted. On the other hand, if it be true that all articles of an allied nature have approximately the same tendencies, then it is presumably the fact that the decline or advance in price as determined by the four articles should be typical of the whole group. This we believe to be the case. But the matter is susceptible of proof. If it be assumed that the different articles have approximately the same tendencies in price we may form a combination in the following manner, which I will illustrate by the group suitings. Let us start with 1860, with the four articles whose prices are given at that date and ascertain their relative price in each subsequent year. In the year 1862 the relative price of the four quotations taken together is 108.9. A new quotation starts in this year. Its initial price may be placed at 108.9 and the subsequent price expressed as proportions of this amount. So on with every succeeding quotation. Each begins with a sum equal to the average relative price of those already begun. This is made clear in the annexed table, which gives such calculations for the group suitings.

TABLE 13.—Relative prices of suitings, 1860 basis amended.

Year.	Cassimeres, all wool.		Cassimeres, Sawyer, made of X and XX wool.						Suitings.						Cassimeres.				Overcoatings.		Average.	
	3-4, 7-ounce, Harris	3-4, 12-ounce, Harris	28-inch, 8½-ounce, double and twist.	28-inch, 8½-ounce, double and twist.	28-inch, 11½-ounce, double and twist.	28-inch, 11½-ounce.	28-inch, 11½-ounce.	28-inch, 11½-ounce.	All wool, indigo blue, 54-inch, 14-ounce, Mid-diesex standard.	Crêpe diagonal, 6-4, 18 side.	Crêpe diagonal, 6-4, 23 side.	Flannel, all wool, in-digo blue, 6-4, As-sabot.	Worsted, Birdseye, 6-4, 18 to 19-ounce, River-side.	Worsted, Birdseye, 6-4, 23 to 24-ounce, River-side.	All wool, fancy, heavy weight.	All wool, fancy, light weight.	All wool, 3-4, 12-ounce, Harris silk mixed.	All wool, fancy, 3-4, heavy weight.	Checks, black and white, all wool, 3-4, 7-ounce, Harris.	Elysian, all wool, 6-4, 32-ounce, Harris.		Rattine, all wool, 6-4, 32-ounce, Harris.
1860.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1862.	111.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1
1863.	168.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
1864.	168.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9
1865.	168.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9
1866.	168.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9
1867.	126.7	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9
1868.	116.1	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9
1869.	105.6	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
1870.	105.6	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
1871.	116.1	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
1872.	116.1	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9	161.9
1873.	116.1	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
1874.	109.8	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9	143.9
1875.	105.6	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
1876.	84.4	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
1877.	84.4	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
1878.	84.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1879.	84.4	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
1880.	84.4	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
1881.	84.4	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
1882.	84.4	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
1883.	84.4	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
1884.	94.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1885.	83.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1886.	83.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1887.	82.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1888.	82.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1889.	82.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1890.	78.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
1891.	78.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0

If it be true that the quotations given at a later date have a different course of prices from those which cover the entire period, and which, by the method adopted, determine the extremes, then the final result of this calculation must be either notably higher or lower than that of the former. Actually the result in 1890 by this method of calculation is the relative price of 83.1, whereas by the former method it was 81.5. It must, therefore, be self evident that no injustice has been done by the method which we have pursued. In order, however, that this matter may be minutely examined we give a series of comparisons of the other percentage methods as applied to the different groups. In each case these tables will enable us to make the comparison of the other methods. One is based on the comparatively small number of articles whose price extends through the entire period. Another is based on all the articles calculated on the basis of 1860, and woven in at their appropriate point in the calculation as was shown in the representative table giving such a calculation for suitings. The third gives the results of a reversal of the figures as based upon the year 1890:

TABLE 14.—*Comparison of methods for ascertaining relative prices.*

Year.	Group 1. Suitings.			Group 2. Carpets.			Group 3. Blank- ets and flannels.			Group 4. Cotton textiles.			Group 5. Leather, etc.		
	1860 basis, 4 articles.	1860 basis, amended, 21 articles.	1890 basis, reversed, 21 articles.	1860 basis, 2 articles.	1860 basis, amended, 3 articles.	1890 basis, reversed, 3 articles.	1860 basis, 2 articles.	1860 basis, amended, 16 articles.	1890 basis, reversed, 16 articles.	1860 basis, 8 articles.	1860 basis, amended, 27 articles.	1890 basis, reversed, 27 articles.	1860 basis, 3 articles.	1860 basis, amended, 20 articles.	1890 basis, reversed, 20 articles.
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	96.9	96.9	97.1	92.3	92.2	92.1	93.4	93.4	95.2	88.9	88.9	87.9
1862	108.9	108.9	111.3	103.3	103.3	103.5	107.7	106.5	106.6	138.4	138.4	127.6	101.5	101.5	101.3
1863	146.5	146.5	146.2	142.1	142.1	146.3	115.7	113.2	113.4	273.9	267.5	253.5	122.3	122.3	121.4
1864	154.5	163.3	167.5	172.4	172.4	172.8	117.4	114.6	114.7	448.3	411.4	321.4	153.9	153.9	151.2
1865	179.3	177.9	181.6	264.9	264.9	265.1	121.4	121.5	117.9	462.6	444.7	468.3	152.7	152.7	160.3
1866	169.5	163.5	166.3	226.6	226.6	227.4	107.1	109.0	105.8	332.6	329.0	337.3	141.3	141.3	132.3
1867	139.7	136.7	139.1	225.6	225.6	226.3	100.0	100.7	97.7	234.8	243.4	242.4	134.2	132.5	133.3
1868	148.3	133.4	135.7	181.8	181.8	181.7	92.9	93.8	91.0	175.0	182.8	155.8	128.5	124.8	126.4
1869	121.8	121.8	118.1	182.6	182.6	182.1	94.3	97.2	94.2	173.3	179.8	166.6	131.8	131.0	127.1
1870	121.8	120.0	115.6	178.7	178.7	178.0	94.3	95.1	99.0	157.6	167.0	159.8	127.0	124.1	124.0
1871	131.4	123.7	121.4	153.3	153.3	153.3	97.1	99.1	103.2	144.6	147.0	136.4	124.6	125.2	120.5
1872	139.5	130.8	128.5	168.3	168.3	166.4	111.4	111.9	120.5	149.0	154.4	140.6	123.8	112.8	115.4
1873	127.9	125.0	124.8	160.3	152.7	151.0	121.4	119.4	120.8	141.1	149.6	138.6	128.0	119.9	116.1
1874	124.9	117.6	118.3	149.5	149.7	147.8	114.3	107.7	107.7	123.8	132.4	124.3	124.9	118.7	114.4
1875	117.6	111.7	111.7	142.6	144.1	142.0	114.3	107.9	107.1	111.8	120.5	109.9	113.4	105.2	105.8
1876	98.7	101.4	100.1	142.3	145.9	143.7	102.9	97.9	97.0	94.2	106.1	99.0	103.5	101.5	101.4
1877	93.4	95.8	94.2	125.3	129.2	127.3	91.4	88.4	87.3	89.8	98.7	90.5	104.8	106.2	102.8
1878	87.6	91.0	89.2	113.0	108.9	107.6	85.7	84.3	84.9	81.7	90.2	83.9	94.5	96.8	93.3
1879	.....	89.2	87.4	99.1	100.3	98.7	84.5	82.8	84.4	79.5	84.8	75.7	94.4	93.9	90.0
1880	.....	98.9	95.9	111.8	109.6	108.6	94.5	96.1	92.1	89.1	98.9	89.9	112.1	96.1	91.6
1881	.....	94.3	92.5	108.8	106.8	105.6	89.9	92.2	88.6	86.0	95.8	86.8	109.4	100.1	94.5
1882	.....	94.6	92.8	107.3	106.3	105.3	85.2	89.7	85.6	86.8	96.7	88.3	108.7	99.7	95.4
1883	89.0	92.1	89.2	107.0	105.9	104.8	79.8	86.7	82.4	82.6	91.8	83.8	105.2	98.8	93.6
1884	97.9	89.6	88.0	95.7	96.4	95.1	72.7	82.6	77.8	73.0	83.9	76.9	106.8	95.3	91.2
1885	88.6	85.9	84.6	87.1	86.9	85.8	76.8	82.4	77.5	68.5	78.5	71.9	100.8	95.8	92.0
1886	87.9	87.9	86.5	88.4	87.8	86.9	81.5	87.0	81.9	69.3	76.4	69.2	97.1	93.4	88.4
1887	87.2	86.5	84.9	86.3	86.4	85.4	79.8	87.5	81.8	69.6	78.6	71.8	91.9	93.0	88.9
1888	85.5	84.1	82.3	81.6	82.3	81.2	79.8	86.5	80.9	76.4	83.2	74.9	86.5	88.0	82.9
1889	83.8	83.3	81.8	78.9	79.8	78.8	82.9	88.4	82.9	74.8	81.1	74.8	83.4	84.9	81.0
1890	82.0	83.1	81.5	78.9	79.7	78.7	79.8	87.0	81.2	72.0	78.5	72.0	77.8	78.9	75.0
1891	79.8	83.2	81.0	84.4	85.8	84.6	79.8	85.8	80.0	69.1	76.9	70.6	85.7	83.4	78.3

We are now concerned with the application of the groups to the figures for the consumption of clothing. The grouping has been made in the following way: For coats, etc., we have taken the group, suitings; for boots and shoes, the group, leather, etc.; for the remaining groups, exclusive of dresses, we have made a combination of four groups on the basis of 1890, viz., blankets and flannels, cotton textiles, linen goods, and underwear, and having found the average of the four have reversed the same by dividing the relative price in 1860 into the subsequent prices. The group, dresses, presented some perplexities. It was evident from an examination of the relative prices based on 1890 that the prices of woollen dress goods, while following in a measure the prices of suitings, had fallen since 1867, when the quotations first began, in a greater degree than suitings had done. It might very properly, therefore, be assumed that the prices in 1860 were relatively higher for this class of goods than for suitings. Unfortunately there were no prices for the year 1860, and if this important group of articles was to be utilized at all resort must be had to some assumption as to the price at that period. It would have been unfortunate to have omitted this item altogether. We ascertained, therefore, the relation of the price of woollen dress goods to the price of suitings for the first ten years during which quotations for both were available. Having found this general relation we constructed supposititious prices for the period 1860 to 1867 by taking this proportion of the prices of suitings. In this manner we arrived at a figure which, though not absolutely accurate, is still based upon a probable hypothesis which enabled us to ascertain the approximate relative price of woollen dress goods in subsequent years.

The series thus obtained were united with the series for cotton dress goods which were extracted for this purpose from the group of cotton textiles, and the average of the two was used as the relative price for the group, dresses, etc., in the calculation of the relative price of clothing as measured by consumption. We are perfectly aware that the methods which have been followed to secure proper relative prices for the different groups of clothing are not ideally perfect, but we consider them the best that could be had under the circumstances. It should be remembered also that these circumstances are not of our own making. Fabrics of all kinds change so frequently that the committee must consider itself fortunate in obtaining as many as twenty-eight articles whose price covers the period from 1860 to the present time. In the nature of things this was the most difficult part of the investigation, and the same degree of accuracy could not have been expected here as elsewhere. But with the large number of quotations for a somewhat less period, and with the methods which have been followed we believe that the results obtained are adequate to the conditions of the problem, and any one who is familiar with previous attempts to ascertain the course of prices by the combination of a considerable number of articles must recognize that the present comparison, imperfect as it may be, is far in advance of any previous effort. In the table which follows we give the application of the relative prices of clothing in 1891 to the consumption as previously ascertained. It will be observed that there has been a decline in price measured by this method since 1860 of nearly 25 per cent.

TABLE 15.—*Relative price of clothing, 1891, measured by consumption.*

	Group.	Importance.	Index.	Result.
<i>Husband.</i>				
1	Coats, vests, trousers, overcoats.....	1,407	81.0	1,139,670
2	Boots and shoes.....	470	78.3	368,010
3	Hats.....	173	76.0	1,135,440
4	Underclothes.....	274		
5	Shirts.....	149		
6	Miscellaneous.....	898		
	Total.....	3,371	78.4	2,643,120
<i>Wife.</i>				
1	Dresses, cloaks, shawls.....	824	66.1	544,664
2	Boots and shoes.....	354	78.3	277,182
3	Underclothes.....	254	76.0	828,400
4	Miscellaneous.....	836		
	Total.....	2,268	72.8	1,650,246
<i>Children.</i>				
1	Coats, etc.....	608	81.0	492,480
2	Dresses, etc.....	657	66.1	434,277
3	Boots and shoes.....	774	78.3	606,042
4	Hats.....	277	76.0	1,764,720
5	Underclothes.....	295		
6	Shirts.....	31		
7	Miscellaneous.....	1,719		
	Total.....	4,361	75.6	3,297,519
	Husband.....	3,371	78.4	2,643,120
	Wife.....	2,268	72.8	1,650,246
	Children.....	4,361	75.6	3,297,519
	Total.....	10,000	75.9	7,590,885

The special budgets collected for the use of the committee also give the distribution of miscellaneous expenditure, as indicated in Table 9. Some of the groups of expenditure, here named, are not for the direct purchase of commodities. It will be remembered that in the discussion of retail prices we felt at liberty to consider these groups as remaining equal during the period investigated. The assumption would be rather hazardous if applied to the long period which is now under investigation. At the same time it will be recognized that there could be no accurate measurement of the relative cost of these objects of expenditure at different dates. We must, therefore, in the present calculation consider them either as remaining uniform, or else omit them altogether, and confine our statement to that portion of the cost of living which is affected by the changes in price measured by tables of the committee. For the present we will follow the former assumption, recognizing, however, its somewhat dubious character. In the list of miscellaneous expenses there are two groups which are subject to change with the variations in the price of commodities, but which must in this calculation be considered uniform in price by reason of the fact that no quotations were secured on these objects. They are expenditure for liquor and expenditure for tobacco. So great have been the changes in the qualities and descriptions of these articles that the most diligent search failed to reveal any which could be considered the same throughout the entire period, and whose prices, therefore, would be adapted to the purposes of the committee.

In the group, furniture and utensils, we have taken as the relative price that furnished by the average of the group, house furnishing goods, in our analysis. The group, all other purposes, is presumably partially affected

by price. It would include a great variety of purchases not already accounted for under other heads, as well as other expenditures which are not affected by price changes. It has, therefore, been considered advisable to assume that one-half of this expenditure has been made for the direct purchase of commodities. The index for the group thus formed has been found by taking an average of all the articles in the list which have found no place in the previous calculation. The list of articles is as follows:

GROUP.	ARTICLE.
Food.	Corn starch, two varieties.
Cloths and clothing.	Ingrain and Brussels carpets, cotton, and wool, two varieties.
Fuel and lighting.	Matches.
Metals and implements.	All the articles.
Lumber and building materials.	All the articles.
Drugs and chemicals.	All the articles.
Miscellaneous.	All the articles.

Assuming, then, the remaining portion of expenditure for other purposes to remain equal, and for the time being that the other groups beside furniture and utensils have also remained uniform, we have the following application of the prices of 1891 to the relative volume of expenditure for miscellaneous purposes:

TABLE 16.—*Relative cost of miscellaneous expenditure, 1891, measured by consumption.*

Group.	Importance.	Index.	Result.
Taxes	115	100.0	115,000
Insurance	151	100.0	151,000
Organizations	66	100.0	66,000
Religion	92	100.0	92,000
Charity	24	100.0	24,000
Furniture and utensils	253	70.1	177,353
Books	100	100.0	100,000
Amusements	92	100.0	92,000
Intoxicating liquors	168	100.0	168,000
Tobacco	107	100.0	107,000
Illness and death	335	100.0	335,000
Other purposes	{ 384	100.0	384,000
	{ 383	92.1	352,743
Total	2,270	95.3	2,164,096

Having ascertained, in the manner described above, the relative cost of expenditure for the three groups, food, clothing, and miscellaneous expenses, we may apply these ratios to the general distribution of expenditures in the 2,561 families, as given in Table 8. In this table there are, beside the three groups mentioned, rent, fuel, and lighting. With rent we are met again with the difficulty that there has been no attempt to ascertain its relative cost in 1860 as compared with the present day, and we are again before the alternative of throwing it out altogether from our calculations or to consider it uniform. The ratio for lighting we have obtained from that for candles. It is to be regretted that no figures were obtained giving the price of kerosene oil, as the very marked fall in the price of that commodity since the year 1860 would have had an appreciable effect upon the result for lighting. It would have reduced slightly the relative price 48.1, which is given for lighting. For fuel we have taken an average of the various kinds of coal included in the table. Assuming in the present calculation that rent remains equal, we have the following statement of the relative cost of living in 1890 as compared with 1860:

TABLE 17.—*Relative prices of all articles, 1891, measured by consumption.*

Group.	Importance.	Index.	Result.
Rent	1,506	100.0	1,506,000
Food	4,103	103.7	4,254,811
Fuel	500	98.1	490,500
Lighting	90	48.1	43,290
Clothing	1,531	75.1	1,162,029
All other purposes	2,270	95.3	2,164,069
Total.....	10,000	96.2	9,620,726

An analysis of the table shows that 68.6 per cent of the total expenditure is affected by changes in prices which have been measured in the foregoing calculation. The remaining portion of the expenditure has been assumed to be equal. The relative price in 1891, by the methods pursued, was 96.2. If, however, we omit from our consideration all those items on which the change of price was not measured, we find the relative cost of that portion of family expenditure directly affected by the prices of commodities to be 94.4 in 1891 as compared with 100 in 1860.

Before proceeding to a further investigation of the prices of commodities in other years, it may be well to apply to the method which has been pursued such tests as the nature of the case will permit. The first test which we may apply is that derived from other budgets. From various sources we have collected the budgets which are included in the following table:

TABLE 18.—*Percentual distribution of expenditure according to various budgets.*

Groups.....	1	2	3	4	5	6	7
Expenditure.	2,561 normal families, "original budget," Seventh Annual Report Department of Labor.	192 normal families, income \$700 to \$800, Seventh Annual Report Department of Labor.	232 special budgets, printed in report on retail prices.	72 normal families, included in the preceding.	Massachusetts budgets of 1875, Labor Report 1885.	Massachusetts budgets of 1883, Labor Report 1885.	Illinois budgets of 1884, Massachusetts Labor Report 1885.
Rent	15.06	15.60	19.99	22.04	17	19.74	17.42
Food	41.03	38.89	37.29	37.39	56	49.28	41.38
Fuel	5.00	4.42	4.44	4.63	6	4.30	5.63
Clothing	15.31	16.33	14.26	14.43	15	15.95	21.00
Lighting	.90	.88	.61	.61	} 6	10.73	14.57
All other expenses .	22.70	23.88	23.41	20.90			
Total.....	100.00	100.00	100.00	100.00	100	100.00	100.00

Groups.....	8	Groups	9	10
Expenditure.	704 Kansas budgets, Labor Report 1887.	Expenditure.	St. Louis budgets, from Missouri Labor Report 1890.	Kansas City budgets from Missouri Labor Report 1890.
Shelter	18.3	Rent.....	15.38	16.63
Food	47.4	Meat	10.56	12.53
Clothing	16.4	Other food	27.60	30.35
Miscellaneous	17.9	Clothing.....	18.65	13.62
		Sundries.....	27.81	26.87
Total.....	100.00	Total.....	100.00	100.00

TABLE 18.—*Percentual distribution of expenditure according to various budgets—Concluded.*

Groups	11	12	Group.....	13
Expenditure.	According to 432 monthly reports, Conn. Labor Rep., 1888.	According to 102 monthly reports, Conn. Labor Rep., 1888.	Expenditure.	Engel's distribution for families with \$750 to \$1,100 income.
Rent.....	7.97	11.46	Rent.....	12
Groceries and vegetables.....	32.82	31.67	Subsistence.....	50
Meat and fish.....	13.76	15.30	Clothing.....	18
Clothing.....	11.95	11.27	Fuel.....	5
Fuel.....	6.76	8.97	Sundry expenses.....	15
Other purposes.....	20.38	12.63		
Total.....	100.00	100.00	Total.....	100

These budgets give, as a rule, the proportion of expenditure for the same groups as are comprised in the original budget. In some cases the grouping is slightly different. In order to make use of these budgets as a test we have been obliged to assume the same distribution of elements within the different groups as that which we have found in our own calculation. In most cases we have filled in the relative price for food at the same figure as that already given. Where food has been divided between meat and vegetables, we have assigned to meat the ratio found in the table and to vegetables and groceries that which results from the omission of meat in our own tables for food. Where in the foregoing tables fuel and lighting have been classed together, we have, in forming the ratio, assigned the fuel that importance which it has in our tables as compared with lighting, in order to obtain a ratio for the group. In order to show the application of the foregoing principles to a specific case, we may consider the calculations given in Table 19 for budgets based on 102 monthly reports in the State of Connecticut.

TABLE 19.—*Relative prices, 1891, measured by budget from 102 Connecticut reports.*

Group.	Importance.	Index.	Result.
Rent.....	1,146	100.0	1,146,000
Groceries and vegetables.....	3,167	102.7	3,252,509
Meat and fish.....	1,530	104.2	1,594,268
Clothing.....	1,127	75.9	855,393
Fuel.....	897	98.1	879,957
Other purposes.....	1,263	93.6	1,182,168
Total.....	10,000	89.1	8,910,287

It will be observed that the distribution of expenditure is different from that given in the original budget, which is the basis of all our calculations. What is there contained under food is here given as two groups: groceries and vegetables, and meat and fish. In order to adapt our relative prices to these groupings, we have taken the sum of meat and fish as found in the group, food, and taken the index for this group from our original budget to apply to the foregoing calculation. The ratio for groceries and vegetables is, therefore, that for the remaining portion of the group, food, after the subtraction of meat and fish. The other groups are the same as those in the original budget except the group, other purposes. Since lighting is not specifically mentioned, it

must be clear that it is included here under the head, other purposes. To find the appropriate ratio for this group, we have, therefore, added together the groups, other purposes and lighting, as found in the original budget (Table 17), in the proportion in which they there exist, and have divided their sum by their aggregate amounts. In this manner the ratio which is found in the foregoing calculation has been obtained. This will sufficiently illustrate the methods which have been pursued in comparing the original budget with others, and it is not necessary to go into the details of all the calculations. The results are as follows, given in the order in which the budgets are printed in Table 18:

2,561 normal families, the original budget	96.1
192 normal families	95.7
232 special budgets	96.3
72 normal families, derived from the preceding	96.4
Massachusetts budgets of 1875	97.7
Massachusetts budgets of 1883	97.0
Illinois budgets, 1884	95.3
Kansas budgets	96.4
St. Louis budgets	95.2
Kansas City budgets, 1890	96.6
Connecticut reports (432) 1888	90.8
Connecticut reports (102) 1888	89.1
Engel's normal distribution	96.3

This statement shows a striking similarity in the results obtained. A wide divergence is noticed only in two cases—those from Connecticut. It may be added that these are the least satisfactory statements of family expenditure which are included in the list. Apart from these two cases the range of variation is very limited, between 95.2 on the one hand and 97.7 on the other. The original budget, the basis of our investigation, stands midway between the extremes.

European statisticians have constructed price comparisons on the basis of a limited number of wholesale prices, and have sometimes attempted to measure the importance of the various quotations by the amount annually consumed in the entire nation. Instead of deriving the consumption from the consumption of families they have taken the consumption of the nation, derived by subtracting from the home production, plus the imports, the amount exported. The best known instance of this class of calculation is that made by Mr. Palgrave in his report to the British commission on the Depression of Trade and Industry. His statement of prices includes nineteen articles, of which the following is the list: Raw cotton, silk, flax and hemp, wool, meat, iron, copper, lead, tin, timber, tallow, leather, hides, indigo, oils, coffee, sugar, tea, tobacco, and wheat. Mr. Palgrave's combination of these figures was based upon their total annual consumption in Great Britain in each of the years compared. So far as it was possible to obtain a statement of the values of these articles of 1890 consumed in the United States we give the results in Table 20:

TABLE 20.—*Value of certain articles consumed in the United States in 1890.*

Cotton	\$117, 556, 351	Timber	\$437, 293, 647
Wool	156, 729, 052	Coffee.....	76, 750, 976
Meat.....	743, 179, 222	Sugar.....	116, 682, 572
Pig iron	152, 970, 262	Tobacco.....	30, 276, 122
Copper	19, 025, 705	Wheat	316, 337, 512
Lead.....	16, 612, 030	Flax and hemp.....	59, 804, 196

This table does not include all the articles included in Mr. Palgrave's list. Some are omitted because of the extreme difficulty of obtaining an accurate statement of their production and consumption, and others because there were no prices on our list which could be applied to them in the calculation which we desire to make. We have omitted leather and hides because of the difficulty of obtaining the value of the home product, and the same is true of tallow. Articles given in the list, but for which no prices are given in our system, are silk, indigo, oils, tin, and tea. Our comparison is, therefore, more limited than Mr. Palgrave's, and the table which is given has been constructed with some difficulty, owing to the various sources from which the information had to be obtained. Production is usually given by the calendar year; exports and imports are reported by the fiscal year ending June 30. Where it has been possible to secure from the Statistical Abstract an official statement of the consumption of certain articles in 1890 this has been taken as a basis. Where the values were not given they had to be calculated. Thus cotton and wheat were taken at their export prices, sugar at the import price, and iron at the spot value. To obtain the value of wool consumed we divided the cost of wool used as material in 1889 by the number of pounds so used and calculated the value of the total consumption at this price. To this we added the value of the manufactures of wool imported in the year 1890. The value of the meat product has been estimated to be \$900,000,000, and from this we have deducted the exports. The value of lumber product is based upon an estimate of the Census Office.

In applying to these figures the relative prices for 1891, as revealed by Table 1, we have confined ourselves exclusively to the products in question, without taking into consideration articles which could have been manufactured from them. Thus the ratio for wool is the average of two wool quotations; for meat we have taken the ratio which was found in the original budget, Table 11; iron is based upon pig iron; copper, upon an average of sheet and ingot copper; lead, upon an average of the lead articles in the list of metals and implements; wood, upon an average of the lumber products in the group, lumber and building materials; sugar is the average of several quotations; tobacco, wheat, cotton, and flax and hemp are derived from the calculated tables of agricultural prices which will be considered later, and which are found in Table X of this report. The results of the comparison are shown in the following table:

TABLE 21.—*Relative prices, 1891, measured by annual consumption of certain articles.*

Articles.	Consumption, in millions of dollars.	Importance.	Index.	Result.
Cotton.....	118	53	80.3	42,559
Flax and hemp.....	60	27	82.8	22,356
Wool.....	157	70	75.4	52,780
Meat.....	743	331	101.0	334,310
Iron.....	153	68	77.0	52,360
Copper.....	19	8	67.1	5,368
Lead.....	17	8	82.6	6,608
Wood.....	437	194	155.6	301,864
Coffee.....	77	35	165.2	57,820
Sugar.....	117	52	64.9	33,748
Tobacco.....	30	13	140.0	18,200
Wheat.....	316	141	87.7	123,657
Total.....	2,244	1,000	105.2	1,051,630
Or without wood.....	1,807	806	93.2	749,766

It will be observed that the price ratio of 105.2, which results from this calculation, is widely at variance with the results derived from the original budget. Explanation for this divergence is easily found from the fact that we are dealing here with a limited number of prices, all of them being the prices of raw products, manufactured articles not entering into the computation. A close analysis of the foregoing table will reveal the fact that the high average price is due in a large measure to the high ratio of wood and the importance which it occupies in the table. If we omit wood from our consideration, and here it should be remembered that so far as wood enters into manufactured articles it has declined in price and not advanced as the raw product has done, we shall have as a result of the calculation 93.2 as the relative price in 1891. This is more strictly in harmony with the results already obtained. But it could not be expected that the two methods should have given absolutely identical results. That based upon the budget is, in my judgment, so far superior to that based upon the total consumption of articles that it must be considered as authoritative. And the fact that this latter calculation differs from it is due simply to the inadequacy of the latter as compared with the former.

COURSE OF PRICES.

In the foregoing analysis we have confined ourselves exclusively to the prices of the year 1891 in order to show present prices as compared with those of an earlier day. It is important, however, to discover what has been the course of prices during the period in question. For individual articles it is given in Table 1, but as it is almost impossible to obtain from them a knowledge of the general tendency of prices we must resort to some combinations in order to bring out the salient facts. We have, therefore, prepared a table (22) which gives for each group of articles in the list the average relative price in each year.

TABLE 22.—*Relative prices in each year, 1840-1891, by groups of articles.*

Year.	General average of prices.								
	Food.	Cloths and clothing.	Fuel and lighting.	Metals and implements.	Lumber and building materials.	Drugs and chemicals.	House furnishing goods.	Miscellaneous.	All articles.
1840	96.6	110.7	395.8	123.5	110.0	145.8	116.4	147.1	116.8
1841	94.4	113.4	208.9	123.7	111.8	141.3	116.4	147.1	115.8
1842	82.9	100.9	202.0	118.7	108.8	131.6	116.4	170.6	107.8
1843	79.3	99.9	187.5	114.7	105.4	121.4	100.3	123.5	101.5
1844	81.6	105.0	119.7	133.3	103.0	119.7	102.3	129.5	101.9
1845	87.3	97.1	239.6	110.8	106.7	121.0	102.3	114.8	102.8
1846	94.6	95.3	143.8	116.9	106.2	123.9	111.0	111.0	106.4
1847	94.7	97.6	110.7	120.6	108.2	112.5	120.3	121.7	106.5
1848	83.5	87.5	106.1	119.7	105.3	113.0	121.7	125.6	101.4
1849	79.0	82.2	100.0	124.9	97.6	111.0	120.5	109.8	98.7
1850	85.5	91.3	102.6	114.8	102.2	123.6	125.6	107.7	102.3
1851	90.6	94.7	97.3	119.2	97.2	125.8	120.0	102.7	105.9
1852	88.7	88.7	93.5	117.7	100.4	111.8	111.9	100.5	102.7
1853	101.2	98.6	101.6	122.8	103.2	107.0	118.7	109.2	109.1
1854	105.9	97.4	106.8	125.6	114.1	110.7	121.2	108.4	112.9
1855	111.8	94.7	121.1	117.8	103.4	129.2	121.2	115.2	113.1
1856	110.4	100.6	126.4	115.3	102.8	135.5	115.5	121.6	113.2
1857	117.5	106.0	113.3	110.4	105.0	126.8	116.8	110.0	112.5
1858	94.6	98.0	111.4	101.3	103.8	116.0	108.7	97.1	101.8
1859	98.8	101.1	98.8	100.1	98.7	104.2	103.2	100.8	100.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	95.8	94.9	103.5	102.5	108.9	101.3	96.8	100.7	100.6
1862	110.4	124.1	97.2	117.2	149.2	116.4	89.5	103.7	117.8
1863	133.0	191.6	107.1	140.0	177.1	146.5	123.1	129.1	148.6
1864	165.8	260.7	180.2	179.8	221.3	170.3	164.6	154.4	190.5
1865	216.5	299.2	237.8	191.4	182.1	271.6	181.1	202.8	216.8
1866	173.8	226.6	280.5	171.1	186.9	230.2	185.3	171.0	191.0
1867	163.9	179.9	196.3	161.3	178.8	211.2	159.1	161.4	172.2
1868	164.2	146.8	218.7	150.5	174.3	177.9	134.9	164.1	160.5
1869	162.9	147.5	206.8	141.3	165.9	160.9	120.7	162.3	153.5
1870	153.8	139.4	196.5	127.8	148.3	149.6	121.6	148.7	142.3
1871	169.3	133.3	144.1	122.2	151.4	139.4	128.5	148.8	136.0
1872	133.3	143.0	149.2	128.0	166.9	134.0	123.2	132.7	138.8
1873	129.8	136.9	134.6	129.8	171.9	141.5	109.1	132.4	137.5
1874	131.5	127.9	149.6	121.1	154.9	146.8	109.5	129.8	133.0
1875	130.5	120.1	156.5	117.5	143.7	144.2	95.0	122.9	127.6
1876	123.1	107.5	144.6	108.4	137.3	121.8	87.2	114.2	118.2
1877	120.3	101.8	108.0	100.0	125.8	122.3	79.0	118.2	110.9
1878	107.0	93.2	93.0	92.1	116.8	114.2	74.3	111.7	101.3
1879	97.6	91.1	95.3	88.4	115.1	110.9	68.6	102.1	96.6
1880	107.6	104.5	100.2	96.3	130.9	113.1	85.2	109.8	106.9
1881	110.9	99.9	113.7	91.1	131.3	110.4	77.6	108.8	105.7
1882	118.8	98.7	110.1	91.2	137.5	107.6	78.1	114.6	108.5
1883	118.8	94.8	114.2	87.5	134.3	98.1	77.5	117.3	106.0
1884	108.9	88.9	102.4	81.0	129.5	95.7	76.3	111.9	99.4
1885	98.7	84.8	89.6	77.4	126.6	86.9	70.1	97.5	93.0
1886	99.5	85.1	86.2	75.8	128.5	83.9	68.4	91.3	91.9
1887	104.2	84.7	88.6	74.9	126.5	83.6	66.4	88.6	92.6
1888	109.4	84.7	94.9	74.9	124.8	86.0	66.9	89.3	94.2
1889	111.9	83.6	95.3	72.9	124.0	88.8	70.0	88.8	94.2
1890	104.6	82.4	92.5	73.2	123.7	87.9	69.5	89.7	92.3
1891	103.9	81.1	91.0	74.9	122.3	86.3	70.1	95.1	92.2

In this table it must be remembered that the articles have been given absolutely indential weight or importance in the formation of the result. It is a simple average in each case of all the relative prices found in the given year in the group named. It is instructive to observe that the price of food in 1891 had reached something near the level of 1860, the sharp advance which followed the outbreak of the war and the inflation of the currency being only partly overcome at the present time. While food to-day is slightly higher than it was in 1860, it is considerably higher than it was in the year 1840. The period from 1840 to 1845 as compared with 1860 stands at from 5 per cent to 20 per cent less. In none of the other groups are the same tendencies observable as in food. In all of them the prices in 1840 are notably higher than they are in 1860. In cloths and clothing, in lumber and building materials, prices were 10 per cent higher; in house furnishing goods, 16

per cent higher; in metals and implements, nearly 25 per cent higher; and in drugs and chemicals and miscellaneous goods, nearly 50 per cent higher. A single article represents the group fuel and lighting in 1840. The years immediately following show the group double 1860 prices. In all of these articles there was a decline toward 1860, which was interrupted by the period of the war and the inflation of the currency, so that prices rose to an enormous height in the following years.

In the period from 1870 to 1875 prices approached the level of 1840. In the following five years they fell to about the level of 1860, and since 1880 there has been a continued decline in prices with the exception of one group. This is the group, lumber and building materials, where since 1860 there has been an advance of 22 per cent, and where the price stands 12 per cent higher to-day than it was in 1840. But in the other groups, representing mainly manufactured products, the decline has been very marked. Prices of cloths and clothing, metals and implements, and house furnishing goods are 20 to 25 per cent lower to-day than they were in 1860. Drugs and chemicals show a decline of about 15 per cent, but in this statement alcohol, which in consequence of taxation sells to-day at four times its price in 1860, is included. If it be omitted the decline in the group is over 30 per cent. The table also contains a column giving the general average of prices. From this it appears that, giving all the articles in the table an equal importance in the result, prices in 1840 were over 15 per cent higher than in 1860. Following the war, prices advanced rapidly until in 1865 they were double what they were in 1860. This advance was not entirely overcome until between the years 1876 and 1877, when the level of the price of 1840 was reached. Between 1883 and 1884 the prices reached the general level of 1860, and since then have declined on the whole about 10 per cent.

In the foregoing table there are contained in the group, metals and implements, as many as twenty-five different varieties of pocket knives. These form about one-half the total number of articles included in the list, and may, therefore, bring about a result for the group which is not representative of all articles of this class. We give, therefore, in the following table the average prices for metals and implements as ascertained, after excluding pocket knives.

TABLE 23.—*Relative prices of metals and implements, excluding pocket knives.*

Year.	Price.	Year.	Price.	Year.	Price.	Year.	Price.
1840	123.5	1853	116.5	1866	192.7	1879	90.2
1841	123.7	1854	126.1	1867	178.9	1880	105.1
1842	118.7	1855	116.5	1868	167.1	1881	96.6
1843	114.7	1856	115.4	1869	157.9	1882	98.6
1844	133.3	1857	113.1	1870	138.8	1883	93.6
1845	110.8	1858	100.9	1871	132.0	1884	83.4
1846	116.9	1859	100.6	1872	145.5	1885	79.6
1847	120.6	1860	100.0	1873	148.6	1886	78.3
1848	119.7	1861	99.1	1874	136.7	1887	78.5
1849	124.9	1862	116.1	1875	131.0	1888	79.6
1850	114.8	1863	141.2	1876	117.7	1889	78.0
1851	102.2	1864	198.0	1877	104.5	1890	77.7
1852	99.6	1865	218.7	1878	93.7	1891	78.1

In the groupings which we have given, each article in the list receives an equal importance, and the comparison is open to all the objections which are raised to that method. We have, therefore, made a comparison of prices based upon the methods which we employed to ascertain the real importance of the prices of 1891. For each year we made a calculation similar to that which has been made in the text for 1891. From the period 1860 down to the present time the figures for making this calculation were comparatively complete, and we feel

sure that the results are worthy of the utmost confidence, providing the methods which have already been described be considered correct. On the other hand, the figures from the year 1840 to the present time are less complete, and the results are not quite so trustworthy. There have been some important gaps in this portion of the work. Thus we had for this early period no quotations giving the price of milk and of eggs. These had, therefore, to be omitted from the comparison. Flour was also missing in this report in Table I, but we have been able to supply this defect from a subsequent table of our report, which gives the prices paid by the Commissary Department of the United States Army for supplies. These prices have been used to ascertain the relative prices of flour during the period from 1841 up to 1860. In the meat group, hog products were represented for the period 1840 to 1860, but beef was not. From Table X, giving the prices of farm products, we obtained the prices of live beeves, and have used these as indicative of the course of prices of beef during this period. Despite these substitutions, however, the calculations only cover a portion—a large portion, it is true—of the total expenditure for food, and in the calculation of the total consumption the ratio ascertained for this portion has been assigned to the entire consumption.

In the case of clothing we have been unable to form any distinctions as to the importance of the various articles which enter into the total. We have applied for the period of 1840 to 1860 the average relative price which was indicated in the former table for the group, cloths and clothing. The other groups have been filled out for this period in the manner which has already been described in relation to the prices for 1891. With these cautions as to the accuracy of calculations for the early part of the investigation, the period 1840 to 1860, we give in the following table a statement of our results:

TABLE 24.—*Relative prices in each year, 1840–1891, for all articles grouped by different methods.*

Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.	Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840.....	116.8	98.5	97.7	1866.....	191.0	160.2	187.7
1841.....	115.8	98.7	98.1	1867.....	172.2	145.2	165.8
1842.....	107.8	93.2	90.1	1868.....	160.5	150.7	173.9
1843.....	101.5	89.3	84.3	1869.....	153.5	135.9	152.3
1844.....	101.9	89.8	85.0	1870.....	142.3	130.4	144.4
1845.....	102.8	92.1	88.2	1871.....	136.0	124.8	136.1
1846.....	106.4	96.7	95.2	1872.....	138.8	122.2	132.4
1847.....	106.5	96.7	95.2	1873.....	137.5	119.9	129.0
1848.....	101.4	92.0	88.3	1874.....	133.0	120.5	129.9
1849.....	98.7	88.9	83.5	1875.....	127.6	119.8	128.9
1850.....	102.3	92.6	89.2	1876.....	118.2	115.5	122.6
1851.....	105.9	99.1	98.6	1877.....	110.9	109.4	113.6
1852.....	102.7	98.5	97.9	1878.....	101.3	103.1	104.6
1853.....	109.1	103.4	105.0	1879.....	96.6	96.6	95.0
1854.....	112.9	103.4	105.0	1880.....	106.9	103.4	104.9
1855.....	113.1	106.3	109.2	1881.....	105.7	105.8	108.4
1856.....	113.2	108.5	112.3	1882.....	108.5	106.3	109.1
1857.....	112.5	109.6	114.0	1883.....	106.0	104.5	106.6
1858.....	101.8	109.1	113.2	1884.....	99.4	101.8	102.6
1859.....	100.2	102.0	102.9	1885.....	93.0	95.4	93.3
1860.....	100.0	100.0	100.0	1886.....	91.9	95.5	93.4
1861.....	100.6	95.9	94.1	1887.....	92.6	96.2	94.5
1862.....	117.8	102.8	104.1	1888.....	94.2	97.4	96.2
1863.....	148.6	122.1	132.2	1889.....	94.2	99.0	98.5
1864.....	190.5	149.4	172.1	1890.....	92.3	95.7	93.7
1865.....	216.8	190.7	232.2	1891.....	92.2	96.2	94.4

In the first column we have the relative price calculated as a simple average of all the quotations. In the second column we have the relative price measured by consumption, but assuming that rent and other expenditures whose changes could not be measured had remained equal in amount. In the third column we omit these expenditures and apply our relative prices solely to those portions of family expenditure which go for the direct purchase of commodities. An examination of this table shows slight variations between the different systems. Since the second column includes nearly one-third of the total, which is assumed to remain at 100 throughout the period, it is evident that the third column, in which this is omitted, will show greater variations. It is instructive to note, however, the comparative agreement between the first and third columns after the year 1860. From the third column it is clear that the cost of living, so far as it is made up of the direct purchase of commodities, reached, between 1884 and 1885, the level of 1860, and since that time has gone below that point.

In this table it is noticeable that during the period 1840-'60 there is considerable difference between the second and third columns and the first. This is undoubtedly due to the fact that in this period the price of food was low, and this, being the most important group of consumption, must reduce the general result in any statement when the volume of consumption is taken into consideration.

In order to show this more clearly we have prepared the following table, 25, showing the course of prices for meat and food generally and for clothing, measured by the consumption of these articles. It will be remembered that in the period 1840-'60 the ratio for clothing is a simple average.

TABLE 25.—*Relative prices, 1840-1891, of food and clothing measured by consumption.*

Year.	Meat.	Other food.	Total food.	Cloth- ing.	Year.	Meat.	Other food.	Total food.	Cloth- ing.
1840	80.1	94.6	88.6	110.7	1866	177.1	169.6	171.9	201.9
1841	72.2	91.1	84.3	113.4	1867	169.1	167.0	167.6	160.2
1842	60.4	85.0	76.2	100.9	1868	169.3	170.3	170.0	133.2
1843	66.5	79.1	74.6	99.9	1869	171.9	159.6	163.4	129.5
1844	62.4	79.4	73.3	105.0	1870	174.3	146.3	154.9	122.5
1845	79.4	82.8	81.6	97.1	1871	159.6	136.3	143.5	122.1
1846	87.6	93.8	91.6	95.3	1872	138.5	134.9	136.0	121.4
1847	88.2	89.5	89.1	97.6	1873	138.9	130.7	133.2	121.8
1848	77.6	83.7	81.5	87.5	1874	134.6	136.6	136.0	112.3
1849	80.3	77.8	78.7	82.2	1875	140.4	135.0	136.6	107.3
1850	86.6	80.7	82.8	91.3	1876	135.6	130.7	132.2	99.4
1851	103.9	94.5	97.7	94.7	1877	120.2	127.5	125.3	96.2
1852	122.6	88.6	100.1	88.7	1878	111.5	117.7	115.8	89.8
1853	111.5	103.4	106.1	98.6	1879	98.5	102.9	101.6	85.0
1854	109.9	102.8	105.2	97.4	1880	103.6	116.9	112.8	92.4
1855	104.7	114.5	111.2	94.7	1881	110.9	122.5	118.9	88.5
1856	101.6	119.9	113.7	100.6	1882	119.5	120.8	120.4	87.9
1857	113.7	118.5	116.9	106.0	1883	115.4	117.1	116.6	84.9
1858	94.8	96.5	95.9	98.0	1884	121.1	109.2	112.8	81.9
1859	98.9	107.1	104.4	101.1	1885	107.6	97.2	100.4	79.3
1860	100.0	100.0	100.0	100.0	1886	99.3	102.4	101.4	79.0
1861	88.4	93.1	91.6	94.2	1887	100.0	104.4	103.1	79.1
1862	84.5	107.2	100.3	114.5	1888	102.4	106.8	105.5	77.9
1863	90.6	134.5	120.1	170.1	1889	107.7	110.0	109.3	77.5
1864	124.5	168.8	154.3	207.1	1890	99.6	103.5	102.3	75.9
1865	197.0	240.3	226.2	259.4	1891	101.0	104.9	103.7	75.9

In the foregoing table the most striking fact is that food in the period 1840-'50 was considerably lower than in 1860, and also lower than in the last few years. On the other hand, clothing is much lower to-day than it was in 1840 or in 1860.

In order to facilitate comparison we have reduced Table 24 to a sim-

ple form, giving the results for periods of five years instead of each year separately. The facts are found in Table 26.

TABLE 26.—*Relative prices by five-year periods, 1840-1891, for all articles grouped by different methods.*

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840-'44.....	108.8	93.9	91.0
1845-'49.....	103.2	93.3	90.1
1850-'54.....	106.6	99.4	99.1
1855-'59.....	108.2	107.1	110.3
1860-'64.....	131.5	114.0	120.5
1865-'69.....	178.8	156.5	182.4
1870-'74.....	137.5	123.6	134.4
1875-'79.....	110.9	108.9	112.9
1880-'84.....	105.3	104.4	106.3
1885-'89.....	93.2	96.7	95.2
1890-'91.....	92.3	96.0	94.1

In this table the features noted in Table 24 are brought out still more strongly. It is apparent that, measured by consumption, prices were somewhat lower in 1840 to 1850 than they are at the present time. On the other hand prices since 1885 have been lower than at any period since 1850.

SHORT PRICE SERIES.

In the discussion of prices of cloths and clothing we have already given a complete analysis of the prices in Table XI, whether covering the period from 1860 to the present time, or only a portion of it. The relative prices for all articles are calculated upon the basis of 1890, and the results displayed in ample detail in Table 12.

In the remaining groups there is a smaller number of quotations which are imperfect. In order to make an examination of these prices we have compared the years 1865, 1870, 1875, 1880, and 1885 with 1890. The results of this comparison are found in Table 27.

TABLE 27.—*Prices at different dates compared with prices in 1890.*

FOOD.

Articles.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Beans, medium.....			94.5	84.9	80.8
Bread:					
No. 1 butter crackers.....				120.0	113.3
XX pilot.....			128.6	100.0	107.1
Fish:					
Cod, pickled, Bank, medium.....			100.0	75.0	62.5
Herring, shore.....			138.5	76.9	100.0
Fruit:					
Apples, evaporated.....				176.5	82.4
Prunes, Turkish.....		303.4	282.8	182.8	131.0
Raisins, Valencia.....			157.1	112.5	121.4
Salt, dairy.....	275.0	267.0	187.5	140.2	110.7
Spices:					
Mustard, best domestic.....		99.3	99.3	99.3	100.0
Pepper, whole, Singapore.....		190.7	151.4	108.4	112.1
Sugar, centrifugal, Nos. 10 and 13, Dutch standard.....		193.5	153.3	150.0	92.4
Vegetables, fresh onions.....	184.0	168.0	88.0	100.0	60.0
Vinegar, cider.....		183.3	150.0	133.3	116.7

TABLE 27.—*Prices at different dates compared with prices in 1890—Continued.*

FUEL AND LIGHTING.

Articles.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Coal, bituminous	361.7	200.0	177.1	135.7	98.6

METALS AND IMPLEMENTS.

Anvils, imported	107.3		112.2	102.4	100.0
Augers, extra, $\frac{3}{4}$ -inch		215.8		189.5	100.0
Axes, M. C. O. Yankee				125.0	108.0
Barbed fence wire				229.9	142.5
Butts, loose joint, cast, 3 by 3-inch				171.4	125.7
Chisels, extra, socket firmer, 1-inch		214.3		157.1	119.0
Files:					
4-inch taper, Nicholson		302.6	221.1	181.6	107.9
8-inch mill, bastard, Nicholson		270.3	237.4	183.5	101.1
10-inch flat, bastard, Nicholson				186.0	114.0
12-inch flat, bastard, Nicholson		242.4	196.7	161.0	95.7
Hammers, Maydole				128.6	120.0
Nickel, refined	295.4	230.8	447.7	169.2	104.6
Planes, Bailey, No. 5				138.2	125.0
Rope:					
New Zealand			122.2		
Sisal		195.0	110.0	120.0	80.0
Saws, wood, No. 77				144.0	105.0
Scythes, grass, clipper				175.1	136.4
Sheet iron:					
Planished or American-Russian, best grade				118.8	100.0
Planished or American-Russian, second grade				118.1	100.0
Russian		135.0	157.5	127.5	107.5
Shovels, Ames No. 228				120.0	111.3
Spelter, domestic	294.1	196.1	129.9	117.6	83.3
Steel rails, Bessemer		336.2	216.5	212.6	89.8
Tin plates, average grade:					
Charcoal				132.2	88.4
do				132.4	91.9
Coke				131.1	85.4
do				138.9	89.7
Trowels, M. C. O. brick, 10 $\frac{1}{2}$ -inch				173.5	138.2
Vises, solid box, 50-pound				172.7	126.3
Wood screws, 1-inch. No. 10 flat head				105.3	57.9
Zinc, domestic, sheet				128.0	94.0

LUMBER AND BUILDING MATERIALS.

Cement, Portland				132.6	116.3
Hickory, boards, first quality, 1-inch, rough			95.0	100.0	100.0
Oak, boards:					
Red, plain, first quality, 1-inch, rough			78.8	78.8	87.9
Red, quartered, first quality, 1-inch, rough				78.3	82.6
White, quartered, first quality, 1-inch, rough				80.0	93.0
Pine flooring, yellow, southern, 1-inch			95.5	86.4	81.8

DRUGS AND CHEMICALS.

Copperas		260.0			
Acetate of lime, gray				173.3	66.7

HOUSE FURNISHING GOODS.

Earthenware:					
Chambers, cream color, 9-inch, without covers	208.2	153.4	166.6	122.1	115.7
Chambers, white granite, 9-inch, with covers	250.3	180.0	184.2	131.5	143.7
Plates, cream color, 7-inch	188.3	141.2	149.5	119.7	116.5
Plates, cream color, 8-inch	207.8	151.3	163.2	130.6	113.8
Plates, white granite, 7-inch		206.8	184.4	131.6	125.1
Plates, white granite, 8-inch		223.6	184.2	131.6	125.1
Tea cups, cream color, without handles	203.7	141.0	166.0	133.0	113.8
Tea cups, white granite, with handles		184.8	184.5	131.7	125.4
Tea cups, white granite, without handles		162.3	175.8	125.0	112.7
Tea saucers, cream color	203.7	141.0	166.0	133.0	113.8
Tea saucers, white granite		162.3	175.8	125.0	119.1

TABLE 27.—*Prices at different dates compared with prices in 1890—Concluded.*

HOUSE-FURNISHING GOODS—Continued.

Articles.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Furniture, bedroom sets:					
Painted, 5 pieces				100.0	114.3
Walnut, 3 pieces				79.4	93.4
Glassware:					
Cans, molasses, britannia top					103.7
Cans, molasses, tin top				169.2	115.4
Nappies, 4-inch				160.0	125.0
Nappies, 6-inch, with covers				209.3	104.7
Knives, table:					
Medium, No. 510	142.9	100.0	85.7	100.0	100.0
Medium, celluloid handles, No. C75			135.7	128.6	100.0
Medium, rubber handles, No. 8,675	238.0	160.0	160.0	140.0	106.0
Medium, solid steel, silver plated all over, No. 2,316		342.1	149.1	114.0	87.7
Knives and forks, carvers:					
Celluloid handles No. C75			148.1	166.7	111.1
Rubber handles, No. 8,675	235.5	204.5	163.6	154.5	109.1
Stag handles, No. 016				137.5	100.0
Wooden handles, No. 2,101			118.2	136.4	100.0
Knives and forks, table, cocobolo handles:					
No. 1,878	388.9	265.1	166.7	177.8	92.4
Fancy metal bolster and cap, No. 22, 100	165.4	134.6	119.2	132.7	90.4
Metal bolster, No. 21	234.2	232.3	167.7	141.9	87.1
Metal bolster and cap, No. 2, 200			100.0	131.0	85.7
Knives and forks: table, iron handles, No. 900			177.8	177.8	92.4

MISCELLANEOUS.

	1865.	1870.	1875.	1880.	1885.
Tobacco, plug, navy:					
Best grade				128.9	100.0
Low grade				115.6	103.1
Medium grade				124.2	106.1
Soap, German, mottled	321.1	189.5	147.4	105.3	115.8

As might be expected among so large a range of articles, there is considerable variation. At the same time the tendencies of these prices conform on the whole pretty closely to those which have already been measured. This is brought out in the following table:

TABLE 28.—*Prices of articles, by groups, at different dates, compared with 1890.*

Groups.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Food:					
Articles in Table 1	207.0	147.0	124.8	102.9	94.4
Articles in Table 27	229.5	200.9	144.3	118.6	99.3
Fuel and lighting:					
Articles in Table 1	257.1	212.4	169.2	108.3	96.9
Articles in Table 27	361.7	200.0	177.1	135.7	98.6
Metals and implements:					
Articles in Table 1	261.5	174.6	160.5	131.6	105.7
Articles in Table 27	232.3	233.9	195.1	149.7	105.7
Lumber and building materials:					
Articles in Table 1	147.5	119.9	116.2	105.8	102.3
Articles in Table 27			89.8	92.7	93.6
Drugs and chemicals:					
Articles in Table 1	309.0	170.2	164.1	128.7	98.9
Articles in Table 27		260.0		173.3	66.7
House-furnishing goods:					
Articles in Table 1	260.6	175.0	136.7	122.6	100.9
Articles in Table 27	222.2	182.6	156.2	136.9	108.1
Miscellaneous:					
Articles in Table 1	226.1	165.8	137.0	122.4	108.7
Articles in Table 27	321.1	189.5	147.4	118.5	106.3
All articles in Table 1	234.9	154.2	138.2	115.8	100.8
All articles in Table 27	237.1	202.1	157.4	134.8	104.1

This table compares the results reached in Table 1 with those of Table 27. In the group, food, we find a fair agreement of the results, in view of the wide variety of objects comprised in it. In fuel and lighting there is but one article in Table 27, but it has much the same tendencies as the larger number comprised in Table 1. Metals and implements, a more homogeneous group, shows a greater agreement. In lumber and building materials the two series are divergent, which is undoubtedly due to the greater prominence of lumber in Table 27 than in Table 1. House furnishing goods show a very considerable similarity in the two series. In the heterogeneous group, miscellaneous, an agreement is hardly to be looked for. The results of the whole, as summarized in the total, seem to show that there has been a somewhat greater decline in the articles in Table 27 than those in Table 1.

Before leaving this subject we may make one more comparison. From the facts presented in Table 12 we are able to make, since 1870, at least, a somewhat closer adaptation of the prices of cloths and clothing to the grouping that is made in Table 9, giving expenditure for this purpose, than that used in our previous calculations. We are able to cover the greater part of the expenditure for clothing, and may fairly assume it to represent the whole. We may take as illustrations the years 1870, 1875, 1880, and 1885. Taking each of these years successively as a base line, the relative price of clothing was as follows:

1890 compared with—	Per cent.
1870	63.5
1875	71.0
1880	78.9
1885	94.9

These results are based upon the closer adaptation of the price figures to the grouping of Table 9. We may profitably compare them with the figures which result from the methods adopted in this report. If we take the clothing figures of Table 25 and compare 1890 with the years in question, we have the result:

1890 compared with—	Per cent.
1870	62.0
1875	70.8
1880	82.1
1885	95.7

The substantial agreement of these two series is a confirmation of the methods adopted in the analysis of the report.

GOLD PRICES.

The statement of relative prices for the period 1862-1878 is much affected by the changing value of the currency in which the prices are expressed. To make a comparison of these years with those which precede and which follow we must take into account the depreciation of the currency. We have therefore reduced some of the more important comparisons to the gold basis. In Table 29 we give gold prices by groups of articles.

TABLE 29.—*Relative prices, in gold,* by groups of articles, 1840-1891.*

Year.	General average of prices.								
	Food.	Cloths and cloth- ing.	Fuel and lighting.	Metals and imple- ments.	Lumber and build- ing materials.	Drugs and chemi- cals.	House furnishing goods.	Miscellaneous.	All articles.
1840	96.6	110.7	395.8	123.5	110.0	145.8	116.4	147.1	116.8
1841	94.4	113.4	208.9	123.7	111.8	141.3	116.4	147.1	115.8
1842	82.9	100.9	202.0	118.7	108.8	131.6	116.4	170.6	107.8
1843	79.3	99.9	187.5	114.7	105.4	121.4	100.3	123.5	101.5
1844	81.6	105.0	119.7	133.3	103.0	119.7	102.3	129.5	101.9
1845	87.3	97.1	239.6	110.8	106.7	121.0	102.3	114.8	102.8
1846	94.6	95.3	143.8	116.9	106.2	123.9	111.0	111.0	106.4
1847	94.7	97.6	110.7	120.6	108.2	112.5	120.3	121.7	106.5
1848	83.5	87.5	106.1	119.7	105.3	113.0	121.7	125.6	101.4
1849	79.0	82.2	100.0	124.9	97.6	111.0	120.5	109.8	98.7
1850	85.5	91.3	102.6	114.8	102.2	123.6	125.6	107.7	102.3
1851	90.6	94.7	97.3	119.2	97.2	125.8	120.0	102.7	105.9
1852	88.7	88.7	93.5	117.7	100.4	111.8	111.9	100.5	102.7
1853	101.2	98.6	101.6	122.8	103.2	107.0	118.7	109.2	109.1
1854	105.9	97.4	106.8	125.6	114.1	110.7	121.2	108.4	112.9
1855	111.8	94.7	121.1	117.8	103.4	129.2	121.2	115.2	113.1
1856	110.4	100.6	126.4	115.3	102.8	135.5	115.5	121.6	113.2
1857	117.5	106.0	113.3	110.4	105.0	126.8	116.8	110.0	112.5
1858	94.6	98.0	111.4	101.3	103.8	116.0	108.7	97.1	101.8
1859	98.8	101.1	98.8	100.1	98.7	104.2	103.2	100.8	100.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	95.8	94.9	103.5	102.5	108.9	101.3	96.8	100.7	100.6
1862	107.7	121.1	94.8	114.3	145.6	113.6	87.3	101.2	114.9
1863	91.7	132.0	73.8	96.5	122.1	101.0	84.8	89.0	102.4
1864	106.6	167.7	115.9	115.6	142.3	109.5	105.9	99.3	122.5
1865	100.1	138.4	110.0	88.5	84.2	125.6	83.8	93.8	100.3
1866	124.1	161.7	200.2	122.1	133.4	164.3	132.3	122.1	136.3
1867	121.8	133.7	145.8	119.8	132.8	156.9	118.2	119.9	127.9
1868	118.6	106.0	157.9	108.7	125.8	128.4	97.4	118.5	115.9
1869	120.1	108.8	152.5	104.2	122.3	118.7	89.0	119.7	113.2
1870	126.8	114.9	162.0	105.4	122.3	123.3	100.2	122.6	117.3
1871	152.9	120.4	130.2	110.4	136.8	125.9	116.1	134.4	122.9
1872	122.2	131.1	136.8	117.3	153.0	122.8	112.9	121.6	127.2
1873	115.2	121.5	119.4	115.2	152.5	125.6	96.8	117.5	122.0
1874	118.0	114.8	134.3	108.7	139.0	131.8	98.3	116.5	119.4
1875	116.0	106.8	139.1	104.4	127.7	128.2	84.4	109.2	113.4
1876	109.1	95.3	128.2	96.1	121.7	108.0	77.3	101.2	104.8
1877	113.3	95.9	101.7	94.2	118.5	115.2	74.4	111.3	104.4
1878	105.5	91.9	91.7	90.8	115.2	112.6	73.3	110.2	99.9
1879	97.6	91.1	95.3	88.4	115.1	110.9	68.6	102.1	96.6
1880	107.6	104.5	100.2	96.3	130.9	113.1	85.2	109.8	106.9
1881	110.9	99.9	113.7	91.1	131.3	110.4	77.6	108.8	105.7
1882	118.8	98.7	110.1	91.2	137.5	107.6	78.1	114.6	108.5
1883	118.8	94.8	114.2	87.5	134.3	98.1	77.5	117.3	106.0
1884	108.9	88.9	102.4	81.0	129.5	95.7	76.3	111.9	99.4
1885	98.7	84.8	89.6	77.4	126.6	86.9	70.1	97.5	93.0
1886	99.5	85.1	86.2	75.8	128.5	83.9	68.4	91.3	91.9
1887	104.2	84.7	88.6	74.9	126.5	83.6	66.4	88.6	92.6
1888	109.4	84.7	94.9	74.9	124.8	86.0	66.9	89.3	94.2
1889	111.9	83.6	95.3	72.9	124.0	88.8	70.0	88.8	94.2
1890	104.6	82.4	92.5	73.2	123.7	87.9	69.5	89.7	92.3
1891	103.9	81.1	91.0	74.9	122.3	86.3	70.1	95.1	92.2

* In converting currency prices into gold we have used the value of \$100 gold in currency as given for January of each year in the American Almanac for 1878, as follows: 1862, \$102.5; 1863, \$145.1; 1864, \$155.5; 1865, \$216.2; 1866, \$140.1; 1867, \$134.6; 1868, \$138.5; 1869, \$135.6; 1870, \$121.3; 1871, \$110.7; 1872, \$109.1; 1873, \$112.7; 1874, \$111.4; 1875, \$112.5; 1876, \$112.8; 1877, \$106.2; and 1878, \$101.4.

This table is a modification of Table 22 and agrees with the latter except in the period of currency depreciation (1862-'78). In those years we have reduced the former table to the gold basis by dividing each relative price by the value in currency of the gold dollar in January of each year. An examination of the table shows that the advance in food is not so marked as in the other groups. The highest figures are reached after the close of the war, the maximum being in 1871. Maximum prices in other groups are found in the last year of the war and the years immediately following.

For the total number of articles we have calculated gold prices in Table 30.

TABLE 30.—*Relative prices in each year, 1840-1891, in gold, for all articles, grouped by different methods.*

Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.	Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840.....	116.8	98.5	97.7	1866.....	136.3	114.3	134.0
1841.....	115.8	98.7	98.1	1867.....	127.9	107.9	123.2
1842.....	107.8	93.2	90.1	1868.....	115.9	108.8	125.6
1843.....	101.5	89.3	84.3	1869.....	113.2	100.2	112.3
1844.....	101.9	89.8	85.0	1870.....	117.3	107.5	119.0
1845.....	102.8	92.1	88.2	1871.....	122.9	112.7	122.9
1846.....	106.4	96.7	95.2	1872.....	127.2	112.0	121.4
1847.....	106.5	96.7	95.2	1873.....	122.0	106.4	114.5
1848.....	101.4	92.0	88.3	1874.....	119.4	108.2	116.6
1849.....	98.7	88.9	83.5	1875.....	113.4	106.5	114.6
1850.....	102.3	92.6	89.2	1876.....	104.8	102.4	108.7
1851.....	105.9	99.1	98.6	1877.....	104.4	103.0	107.0
1852.....	102.7	98.5	97.9	1878.....	99.9	101.7	103.2
1853.....	109.1	103.4	105.0	1879.....	96.6	96.6	95.0
1854.....	112.9	103.4	105.0	1880.....	106.9	103.4	104.9
1855.....	113.1	106.3	109.2	1881.....	105.7	105.8	108.4
1856.....	113.2	108.5	112.3	1882.....	108.5	106.3	109.1
1857.....	112.5	109.6	114.0	1883.....	106.0	104.5	106.6
1858.....	101.8	109.1	113.2	1884.....	99.4	101.8	102.6
1859.....	100.2	102.0	102.9	1885.....	93.0	95.4	93.3
1860.....	100.0	100.0	100.0	1886.....	91.9	95.5	93.4
1861.....	100.6	95.9	94.1	1887.....	92.6	96.2	94.5
1862.....	114.9	100.3	101.6	1888.....	94.2	97.4	96.2
1863.....	102.4	84.1	91.1	1889.....	94.2	99.0	98.5
1864.....	122.5	96.1	110.7	1890.....	92.3	95.7	93.7
1865.....	100.3	88.2	107.4	1891.....	92.2	96.2	94.4

This table is the same as Table 24, with the exception of the years (1862-1878), which are reduced to the gold basis. It will be seen from this table that maximum prices occurred in 1866, by all the methods of computation. There was a slight decline in the years immediately following. This was succeeded by a rise in prices in 1871 and 1872, after which prices began the downward course which has since characterized their movement.

In Table 31 the facts brought out in the preceding table are given by five-year periods.

TABLE 31.—*Relative prices, in gold, by five-year periods, 1840-1891, for all articles, grouped by different methods.*

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840-'44.....	108.8	93.9	91.0
1845-'49.....	103.2	93.3	90.1
1850-'54.....	106.6	99.4	99.1
1855-'59.....	108.2	107.1	110.3
1860-'64.....	108.1	95.3	99.5
1865-'69.....	118.7	103.9	120.5
1870-'74.....	121.8	109.4	118.9
1875-'79.....	103.8	102.0	105.7
1880-'84.....	105.3	104.4	106.3
1885-'89.....	93.2	96.7	95.2
1890-'91.....	92.3	96.0	94.1

WHOLESALE PRICES OF AGRICULTURAL PRODUCTS.

In Table X of the report are embodied the fruits of a painstaking investigation into the wholesale prices of agricultural products for the period 1840-'91, conducted by the statistical division of the Department of Agriculture. The changes in classifications and the chaotic state of the earlier records have rendered the investigation difficult. The results are stated oftentimes as the range of prices, this being the universal habit in quotations of farm products. In this investigation resort had to be taken to published records, since private ones were inaccessible, and this has necessitated giving the quotations as the range of prices more frequently than in the other investigations. For the purposes of our analysis we have used the mean of the two quotations in all such cases.

Taking, as before, the year 1860 as the basis of our calculations, and expressing other years as percentages in the manner so amply described in connection with wholesale prices of commodities, we have prepared the following table, giving the various series of quotations of Table X reduced to relative prices:

TABLE 32.—*Relative prices of agricultural products, individual quotations.*

[The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	2 Barley.	5. Clover seed.	6. Clover seed.	7. Corn.	11. Cotton, up-land, middling.	12. Flaxseed.	13. Flaxseed.	14. Flaxseed, rough, American.	15. Hemp, rough.	17. Hides, dry, California.	17. Hides, dry, Rio Grande.	18. Hides, dry, Texas.
1840.....	83.1	.....	173.3	85.1	83.2	.....	56.8	92.1	88.0	54.5	58.1	83.0
1841.....	88.3	.....	96.7	103.3	85.5	.....	73.6	90.8	148.0	52.8	62.9	101.9
1842.....	70.8	.....	100.0	85.1	68.2	58.7	56.4	90.8	80.0	51.7	57.0	73.6
1843.....	71.4	30.3	80.0	74.9	78.6	.....	68.2	76.2	64.0	.....	58.1	.....
1844.....	73.4	157.6	125.0	71.3	55.5	.....	.....	83.8	56.0	.....	52.7	73.6
1845.....	77.3	.....	88.3	83.6	70.5	.....	104.5	86.3	56.0	.....	52.2	71.7
1846.....	81.2	.....	110.0	.....	85.5	.....	54.5	79.4	50.4	.....	45.7	56.6
1847.....	90.9	.....	98.3	96.7	107.5	46.8	72.7	85.7	88.0	47.7	51.6	64.2
1848.....	100.0	115.2	88.3	112.0	62.4	.....	77.3	77.8	92.0	28.4	36.6	45.3
1849.....	81.2	.....	83.3	93.8	97.1	47.7	109.1	86.0	108.0	39.2	47.3	61.3
1850.....	101.9	.....	86.7	95.3	129.5	.....	113.6	100.0	80.0	51.1	59.7	76.4
1851.....	103.9	.....	118.3	90.9	84.4	.....	90.9	84.1	72.0	.....	59.1	79.2
1852.....	98.7	.....	120.0	102.5	93.6	.....	81.8	87.3	76.0	.....	65.6	77.4
1853.....	109.1	106.1	161.7	120.4	98.8	85.1	113.6	90.5	.....	.....	76.3	86.8
1854.....	151.0	122.7	110.0	109.8	86.1	.....	136.4	105.6	120.0	57.4	75.3	79.2
1855.....	162.3	130.3	140.0	125.5	91.3	106.4	145.5	117.5	124.0	75.0	101.1	111.3
1856.....	161.0	178.8	181.7	99.6	113.3	117.0	163.6	139.7	144.0	100.0	116.1	158.5
1857.....	116.9	155.2	196.7	102.2	143.4	.....	90.9	90.5	100.0	115.9	133.3	135.8
1858.....	142.9	127.3	103.3	104.0	123.7	106.4	127.3	100.0	88.0	101.1	110.8	124.5
1859.....	111.7	133.3	106.7	133.8	106.4	.....	100.0	97.8	100.0	104.5	107.5	128.3
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0
1861.....	84.4	97.0	101.7	79.3	198.8	76.6	90.9	99.0	56.0	100.0	96.8	150.9
1862.....	77.3	104.2	120.0	86.5	522.5	123.4	113.6	126.0	84.0	115.9	119.4	166.0
1863.....	168.8	124.2	121.7	126.2	781.5	240.4	181.8	166.7	108.0	133.0	123.7	.....
1864.....	240.3	193.9	158.3	229.8	1119.1	204.3	254.5	201.6	.....	120.5	116.1	181.1
1865.....	165.6	312.1	340.0	132.4	453.2	234.0	245.5	192.1	188.0	85.2	75.8	120.8
1866.....	181.8	130.3	130.0	138.2	365.3	.....	254.5	211.1	240.0	85.2	78.5	90.6
1867.....	191.6	236.4	216.7	192.7	198.8	193.6	200.0	181.7	.....	92.0	88.2	160.4
1868.....	250.0	151.5	156.7	164.4	247.4	200.0	236.4	179.4	160.0	86.4	88.2	113.2
1869.....	178.6	215.2	203.3	141.1	254.3	191.5	181.8	155.6	156.0	86.4	90.3	158.5
1870.....	142.9	221.2	176.7	126.5	156.1	.....	163.6	146.0	176.0	98.9	99.5	154.7
1871.....	120.1	139.4	130.0	110.5	182.7	136.2	140.9	131.7	120.0	103.4	107.5	135.8
1872.....	136.4	121.2	126.7	93.8	173.4	140.4	136.4	129.5	84.0	105.7	106.5	150.9
1873.....	178.6	115.2	113.3	97.1	169.9	151.1	140.9	138.1	96.0	112.5	111.8	173.6
1874.....	152.6	143.0	136.7	139.3	143.4	148.9	159.1	130.2	128.0	110.2	108.6	167.9
1875.....	149.4	152.7	150.0	96.4	121.4	114.9	127.3	109.5	116.0	96.6	90.3	143.4
1876.....	128.2	227.9	223.3	82.5	101.7	102.1	100.0	91.4	88.0	80.7	76.3	126.4
1877.....	110.4	200.0	201.7	84.7	102.9	109.8	104.5	91.7	100.0	100.0	92.5	143.4
1878.....	146.1	99.4	96.7	70.7	99.4	110.6	109.1	115.9	76.0	109.1	100.0	154.7
1879.....	129.9	86.1	83.3	76.4	96.0	103.4	103.6	86.5	80.0	96.6	89.2	126.4
1880.....	116.9	87.3	93.3	75.4	106.4	104.7	100.0	88.9	104.0	106.8	100.0	143.4
1881.....	149.4	109.1	115.0	109.3	109.2	120.9	100.0	93.7	96.0	102.3	93.5	132.1
1882.....	122.1	106.7	108.3	100.7	105.8	100.4	100.0	82.5	84.0	110.2	98.9	139.6
1883.....	.....	187.9	186.7	90.2	98.3	111.5	101.8	107.9	88.0	96.6	90.3	118.9
1884.....	110.4	143.0	136.7	89.5	93.6	112.8	116.4	92.1	88.0	102.3	94.6	124.5
1885.....	100.0	118.8	110.0	71.5	93.1	103.0	104.5	81.3	140.0	95.5	90.3	118.9
1886.....	103.9	150.3	130.0	68.1	87.9	88.5	90.9	.....	108.0	89.8	80.6	111.3
1887.....	102.6	94.5	100.0	75.1	87.9	89.4	86.4	.....	92.0	79.5	74.2	107.5
1888.....	110.4	90.9	90.0	75.1	96.5	114.9	109.1	.....	76.0	81.8	74.2	105.7
1889.....	89.3	115.2	115.0	57.8	100.6	107.9	113.6	.....	96.0	68.2	57.0	75.5
1890.....	101.0	75.2	81.7	81.7	96.0	127.2	127.3	.....	104.0	68.2	54.8	83.0
1891.....	92.9	107.9	101.7	89.1	80.3	79.1	86.4	.....	92.0	60.2	57.0	83.0

TABLE 32.—*Relative prices of agricultural products, individual quotations*—Continued.

The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	19. Hides, dry, western.	20. Hides, green.	21. Hides, green, salted.	22. Hides, wet, salted, Califor- nia.	22. Hides, wet, salted, city slaughter.	23. Hides, wet, salted, Rio Grande.	24. Meat, beeves, good to choice, live weight.	25. Meat, beeves, good to prime, live weight.	26. Meat, beeves, live weight.	27. Meat, hogs, fair to good, packing, live weight.	28. Meat, hogs, good to prime, live weight.
1840		156.5						65.8			50.5
1841		156.5						60.5		54.8	
1842		121.7	50.0					57.9			53.3
1843							69.2	63.2		43.5	
1844								57.9			59.8
1845		87.0					107.7	57.9		69.6	52.3
1846		87.0	40.0				107.7	71.1			61.7
1847			36.7				130.8	76.3	89.6	39.6	82.2
1848		73.9	43.3					60.5	113.2	60.9	70.1
1849		73.9	33.3					81.2	84.4	39.1	67.3
1850		69.6					115.4	78.9		60.9	62.6
1851		73.9					161.5	76.3		63.5	72.9
1852		73.9	103.3			63.5	161.5	89.5	150.9	98.3	84.1
1853			58.3			81.3	133.8	105.3	103.8	104.3	80.4
1854		104.3	66.7			75.0	161.5	97.4	110.8	67.0	80.4
1855		95.7	86.7			104.2	123.1	105.3	106.0	104.3	100.9
1856		143.5	93.3			116.7	115.4	110.5	84.9	88.7	95.3
1857		108.7	60.0		105.9	125.0	123.1	115.8	103.8	107.0	102.8
1858		117.4	103.3		108.8	97.9	100.0	94.7	94.3	77.4	71.0
1859		117.4	90.0		114.7	100.0	107.7	100.0	89.6	80.0	84.1
1860		100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	66.7	100.0	91.2	102.1	100.0	92.1	89.6	53.0	58.9
1862	111.1	117.4	100.0	113.6	100.0	120.8	84.6	89.5	100.0	54.8	62.6
1863		160.9	136.7	129.5	108.8	120.8	107.7	105.3	117.9	49.6	73.8
1864	129.2	187.0	116.7	120.5	141.2	118.8	215.4	182.3	179.2	204.3	168.2
1865	59.7	139.1	118.3	84.1	135.3	75.0	184.6	194.7	259.4	221.7	215.0
1866	73.6	156.5	116.7	86.4	147.1	81.3	215.4	173.7	217.0	169.6	162.6
1867	63.9		128.3	100.0	152.9	93.8	215.4	157.9	150.9	113.0	107.5
1868	77.8	195.7	166.7	100.0	151.5	93.8	153.8	171.1	150.9	152.2	148.6
1869	108.3	208.7	110.0	102.3	148.5	91.7	161.5	163.2	212.3	156.5	155.1
1870	102.8	173.9	103.3	100.0	135.3	103.1	161.5	165.8	155.7	133.0	135.5
1871	105.6	173.9	146.7	102.3	139.7	106.8	126.8	126.3	176.4	76.5	77.6
1872		200.0	153.3	106.8	145.6	104.2	134.5	128.9	207.5	82.6	78.5
1873	122.2	187.0	106.7	109.1	130.9	100.0	92.3	119.7	200.9	73.9	80.4
1874	105.6	152.2	113.3	102.3	125.0	104.2	127.7	121.1	193.4	113.0	93.5
1875	106.9	147.8	110.0	90.9	114.7	89.6	135.4	123.7	203.8	137.4	129.0
1876	88.9	156.5	103.3	79.5	102.9	75.0	104.6	106.6	174.5	95.7	99.1
1877	100.0	165.2	116.7	95.5	123.5	91.7	123.1	111.8	179.2	91.3	82.2
1878	105.6	130.4	96.7	97.7	114.7	97.9	104.6	86.8	150.9	61.7	59.8
1879	94.4	156.5	113.3	93.2	127.9	90.6	107.7	98.7	167.9	64.3	61.7
1880	102.8	187.0	126.7	102.3	114.7	102.1	116.9	93.4	174.5	86.1	81.1
1881	97.2	178.3	113.3	100.0	126.5	97.9	133.8	119.7	212.3	112.2	99.4
1882	100.0	134.8	116.7	102.3	135.3	93.8	136.9	128.9	240.6	141.7	127.1
1883	93.1	130.4	106.7	86.4	111.8	93.8	136.9	118.4	207.5	81.7	82.2
1884	94.4	130.4	110.0	100.0	107.4	87.5	136.9	117.1	226.4	88.7	78.5
1885	88.9	143.5	106.7	95.5	111.8	89.6	123.1	100.6	184.9	67.0	69.5
1886	86.1	130.4	100.0	93.2	114.7	87.5	115.4	103.9	167.9	73.0	76.6
1887	83.3	156.5	96.7		105.9	83.3	115.4	97.7	160.4	81.7	80.7
1888	66.7	121.7	95.0		100.0	75.0	126.2	110.0	185.8	105.2	96.4
1889	52.8	117.4	66.7		94.1	66.7	100.0	87.4	146.2	75.7	73.6
1890	58.3	113.0	86.7		105.9	70.8	112.3	92.3	158.5	73.0	66.9
1891	55.6	87.0	65.0	68.2	91.2	62.5	123.1	106.2	184.9	80.0	78.5

TABLE 32.—*Relative prices of agricultural products, individual quotations—Continued.*

[The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	31. Meat, sheep, good to choice, five weight.	31. Meat, sheep, good to prime, five weight.	32. Oats.	35. Rye.	38. Timothy seed.	39. Timothy seed.	39. Timothy seed.	45. Tobacco, leaf, Kentucky.	52. Tobacco, seed leaf, cigar, bind- ers.	53. Tobacco, seed leaf, cigar, fillers.	53. Tobacco, seed leaf, cigar, smok- ers.
1840			102.0	79.6			82.8	94.1			
1841			126.8	89.2		73.8	122.8	91.2			
1842			70.6	75.8	46.5	73.8	78.4	55.9			
1843	40.0		69.9	80.3			88.4	58.8			
1844			86.3	84.7			68.4	51.5			
1845			105.9	87.3			81.6	60.3			
1846			100.7	100.6		67.5	85.6	57.4			
1847	46.0		142.5	108.3	52.3	116.0	92.8	69.1			
1848			89.5	87.9		105.5	97.2	61.8			
1849			94.1	76.4		105.5	108.4	79.4			
1850			111.1	86.9		137.1	102.8	102.9			
1851	90.0		104.6	86.9		137.1	97.2	77.9			
1852	80.0		118.3	109.6	104.7	84.4	108.4	82.4			
1853	100.0		127.5	115.3		78.1	94.4	92.6	84.6	81.8	120.0
1854	120.0		132.7	152.9	122.1	94.9	160.0	94.1			
1855	120.0		117.6	147.8	107.6	131.6	137.6	82.4			
1856			117.6	108.3	119.2	137.1	145.0	100.0	123.1	127.3	160.0
1857			117.6	89.2	101.7	121.1	145.0	152.9			
1858			134.6	101.9	69.8	69.6	95.0	82.4	123.1	109.1	160.0
1859	66.0		108.5	103.8	98.0	100.0	94.4	102.9	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
1861	80.0	90.5	90.2	87.3	65.1	63.3	75.0	123.5			
1862	150.0	104.8	150.3	80.3	68.6	69.6	77.5	220.6	200.0	218.2	260.0
1863	174.8	100.0	183.7	138.5	104.7	107.6	98.0	210.3	169.2	163.6	220.0
1864	240.0	152.4	227.5	184.7	186.0	248.9	200.0	314.7	153.8	122.7	180.0
1865	220.0	128.6	156.9	127.4	165.1	168.8	190.0	294.1	76.9	63.6	100.0
1866	190.0	111.9	149.0	159.2	130.7	139.2	132.5	229.4	61.5	54.5	70.0
1867	170.0	109.5	198.7	204.5	99.3	111.8	117.0	155.9	69.2	45.5	60.0
1868	110.0	121.4	189.5	191.1	123.3	132.9	125.0	155.9	123.1	100.0	120.0
1869	144.0	109.5	167.3	148.4	145.3	168.8	185.0	141.2	107.7	109.1	120.9
1870	140.0	109.5	139.9	114.6	190.7	211.0	235.0	120.6	92.3	90.9	120.0
1871	130.0	109.5	138.6	118.5	116.3	130.8	125.0	117.6	146.2	159.1	220.0
1872	192.0	121.4	115.0	108.3	130.2	132.9	155.0	132.4	153.8	163.6	220.0
1873	140.0	114.3	136.6	113.4	114.0	128.7	130.0	120.6	200.0	200.0	280.0
1874	180.0	114.3	158.8	119.7	120.9	109.7	113.0	185.3	146.2	154.5	180.0
1875	170.0	123.8	117.6	114.6	104.7	101.3	115.0	170.6	130.8	136.4	160.0
1876	160.0	114.3	112.4	104.5	81.4	73.8	75.0	147.1	100.0	118.2	140.0
1877	160.0	102.4	88.9	94.9	60.5	57.0	58.5	111.8	107.7	100.0	90.0
1878	140.0	92.9	75.8	82.2	51.2	50.6	120.0	97.1	100.0	100.0	120.0
1879	150.0	92.9	94.1	101.9	88.4	84.4	105.0		107.7	109.1	120.0
1880	182.0	92.9	110.1	122.3	106.0	99.2	110.0	97.1	123.1	100.0	140.0
1881	198.0	100.0	119.6	140.8	125.6	122.4	117.0	132.4	115.4	90.9	120.0
1882	170.0	104.8	103.4	101.3	74.4	78.1	99.0	120.6	107.7	81.8	140.0
1883	158.0	95.2	92.0	92.4	58.1	54.9	56.0	117.6	123.1	90.9	120.0
1884	160.0	92.9	81.5	88.2	58.6	57.0	65.0	120.6			
1885	146.0	90.5	86.6	79.0	77.2	71.7	80.0	116.2	107.7	81.8	130.0
1886	158.0	91.4	93.5	70.1	84.2	78.1	87.0	111.8	76.9	63.6	100.0
1887	156.0	87.1	92.6	70.1	103.7	97.0	90.0	114.7	115.4	81.8	90.0
1888	166.0	85.7	78.1	83.4	67.4	67.5	90.0	117.6	92.3	90.9	80.0
1889	188.0	92.9	68.3	63.7	58.6	54.9	62.0	111.8	107.7	90.9	80.0
1890	178.0	100.0	114.7	87.9	57.7	54.9	64.0	111.8	115.4	90.9	100.0
1891	178.0	97.6	86.6	123.6	52.1	50.6			146.2	168.2	210.0

TABLE 32.—*Relative prices of agricultural products, individual quotations*—Concluded.

[The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	54. Tobacco, seed leaf, cigar wrappers, average.	55. Tobacco, seed leaf, cigar wrappers, common.	55. Tobacco, seed leaf, cigar wrappers, fine.	56. Tobacco, seed leaf, cigar wrappers, good.	57. Tobacco, wrappers, Connecticut.	58. Tobacco, wrappers, Ohio.	58. Tobacco, wrappers, Pennsylvania.	60. Wheat, No. 2, spring.	61. Wheat, No. 2, winter.	62. Wheat, spring.	63. Wheat, winter.
1840								43.1		88.1	87.2
1841								39.7	54.6	77.9	74.1
1842										102.5	88.7
1843								41.2	42.7	75.8	65.6
1844								55.4		82.8	72.3
1845									65.1	80.7	67.7
1846										92.2	92.2
1847									51.4	112.7	80.1
1848								77.0	75.7	104.1	96.5
1849									62.8	82.8	89.4
1850								57.8	71.1	86.9	89.7
1851					116.1		115.4	52.9	61.9	79.9	86.2
1852					64.5			36.3	52.8	88.5	79.1
1853	68.6	73.3	51.8	59.1	64.5		71.2	58.8	75.2	99.2	93.6
1854					74.2		67.3	98.0	101.4	153.7	134.8
1855					69.4		69.2	137.3	115.6	187.7	168.8
1856	132.4	133.3	133.9	131.8	95.2		103.8	115.2	133.0	139.8	136.9
1857					187.1	178.8	178.8	84.3	101.4	129.5	112.8
1858	141.5	173.3	135.7	150.0	141.9	130.8	130.8	61.0	64.2	94.3	85.1
1859	100.0	100.0	100.0	100.0	116.1	100.0	88.5	83.3	97.7	113.1	92.2
1860					100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861					80.6	88.5	88.5	77.0		103.5	96.5
1862	196.8	206.7	185.7	177.3	129.0	130.8	130.8	70.6	71.6	103.3	101.4
1863	162.8	180.0	150.0	150.0	209.7	173.1	173.1	104.9	93.6	100.8	105.3
1864	149.4	153.3	153.6	145.5	290.3	269.2	269.2	109.3	109.2	132.8	114.2
1865	103.2	100.0	128.6	109.1	177.4	115.4	115.4	96.1	145.0	139.8	181.2
1866	82.4	80.0	100.0	90.9	185.5	115.4	115.4	88.7		113.5	145.4
1867	105.4	113.3	135.7	122.7	209.7	261.5	238.5	217.4		202.9	219.9
1868	160.7	180.0	185.7	177.3	258.1		203.8	187.7		200.0	191.5
1869	133.0	120.0	160.7	136.4	258.1	280.8	280.8	107.1		118.9	131.2
1870	117.0	133.3	125.0	122.7	290.3	219.2	307.7	74.8		88.1	91.1
1871	169.7	180.0	178.6	159.1	193.5	269.2	269.2	124.3		125.4	105.0
1872	159.0	156.7	160.7	145.5	161.3	269.2	269.2	118.1		125.2	112.1
1873	189.4	180.0	185.7	168.2	216.1	315.4	315.4	117.4		136.9	136.5
1874	171.3	220.0	160.7	172.7	145.2	223.1	223.1	119.4		127.0	118.1
1875	161.7	206.7	157.1	168.2	112.9		203.8	94.6		98.0	91.1
1876	150.1	186.7	160.7	159.1	145.2		150.0	101.0		105.3	97.5
1877	146.2	186.7	160.7	159.1	138.7		288.5	124.0	117.4	122.1	105.3
1878	140.5	146.7	160.7	159.1	153.2		196.2	109.8	110.1	105.7	100.7
1879	119.2	146.7	114.3	118.2				87.3	78.9	93.6	77.0
1880	129.8	153.3	125.0	136.4	153.2	153.8	203.8	111.8	120.2	104.9	112.2
1881	114.9	133.3	114.3	112.8	193.5	107.7	242.3	100.0	88.5	100.8	83.8
1882	141.5	146.7	175.0	145.5	141.9	92.3	259.6	132.8	117.4	114.3	101.2
1883	129.4	133.3	150.0	127.3	193.5	123.1	211.5	105.6	87.2	84.0	78.2
1884					193.5	153.8	142.3	83.8	89.9	80.8	79.4
1885	115.5	126.7	121.4	118.2	161.3		144.2	76.0	71.4	74.2	62.8
1886	85.1	86.7	96.4	81.8	161.3		142.2	74.8	80.7	74.8	65.6
1887	118.6	140.0	125.0	122.7	162.9		153.8	78.4	73.6	75.8	66.4
1888	110.6	106.7	92.9	100.0	162.9		153.8	74.1	75.2	69.4	65.4
1889	123.4	133.3	142.9	127.3	162.9	115.4	148.1	99.0	91.7	79.9	73.4
1890	118.1	106.7	142.9	113.6	162.9	115.4	250.0	76.6	72.0	73.8	60.9
1891	125.5	126.7	103.6	100.0				101.0	85.6	91.0	73.2

The preceding table includes several quotations for the same product, and this multiplicity of returns hinders a rapid comparison of results. In order to avoid this difficulty we have obtained the average relative price on each commodity and united our results in Table 33.

TABLE 33.—*Relative prices of agricultural products, individual products.*

Year.	Barley.	Clover seed.	Corn.	Cotton, upland, middling.	Flax-seed.	Hemp, rough.	Hides.	Meat, beeves.
1840.....	83.1	173.3	85.1	83.2	74.5	88.0	88.0	65.8
1841.....	88.3	96.7	103.3	85.5	82.2	148.0	93.5	60.5
1842.....	70.8	100.0	85.1	68.2	68.6	80.0	70.8	57.9
1843.....	71.4	55.2	74.9	78.6	72.2	64.0	58.1	66.2
1844.....	73.4	141.3	71.3	55.5	83.8	56.0	63.2	57.9
1845.....	77.3	88.3	83.6	70.5	95.4	56.0	70.3	82.8
1846.....	81.2	110.0	-----	85.5	67.0	50.4	57.3	89.4
1847.....	90.9	98.3	96.7	107.5	68.4	88.0	50.1	98.9
1848.....	100.0	101.8	112.0	62.4	77.6	92.0	45.5	86.9
1849.....	81.2	83.3	93.8	97.1	80.9	108.0	51.0	83.1
1850.....	101.9	86.7	95.3	129.5	106.8	80.0	64.2	97.2
1851.....	103.9	118.3	90.9	84.4	87.5	72.0	70.7	118.9
1852.....	98.7	120.0	102.5	93.6	84.6	76.0	76.8	134.0
1853.....	109.1	133.9	120.4	98.8	96.4	-----	75.7	114.3
1854.....	151.0	116.4	109.8	86.1	121.0	120.0	76.3	123.2
1855.....	162.3	135.2	125.5	91.3	123.1	124.0	95.7	111.5
1856.....	161.0	180.3	99.6	113.3	140.1	144.0	121.4	103.5
1857.....	116.9	176.0	102.2	143.4	90.7	100.0	112.1	114.2
1858.....	142.9	115.3	104.0	123.7	111.2	88.0	109.1	96.3
1859.....	111.7	120.0	133.8	106.4	98.9	100.0	108.9	99.1
1860.....	100.0	100.0	100.0	100.0	100.0	-----	100.0	100.0
1861.....	84.4	99.4	79.3	198.8	88.8	56.0	100.9	93.9
1862.....	77.3	112.1	86.5	522.5	121.0	84.0	118.2	91.4
1863.....	168.8	123.0	126.2	781.5	196.3	108.0	130.5	110.3
1864.....	240.3	176.1	229.8	1, 119.1	220.1	-----	136.8	192.3
1865.....	165.6	326.1	132.4	453.2	223.9	188.0	99.3	212.9
1866.....	181.8	130.0	138.2	365.3	232.8	240.0	101.8	202.0
1867.....	191.6	226.6	192.7	198.8	191.8	-----	109.9	174.7
1868.....	250.0	154.1	164.4	247.4	205.3	160.0	119.3	158.6
1869.....	178.6	209.3	141.1	254.3	176.3	156.0	122.7	179.0
1870.....	142.9	199.0	126.5	156.1	154.8	176.0	119.1	161.0
1871.....	120.1	134.7	110.5	182.7	136.3	120.0	124.6	143.2
1872.....	136.4	124.0	93.8	173.4	135.4	84.0	134.1	157.0
1873.....	178.6	114.3	97.1	169.9	143.4	96.0	128.2	137.6
1874.....	152.6	139.9	139.3	143.4	146.1	128.0	121.0	147.4
1875.....	149.4	151.4	96.4	121.4	117.2	116.0	110.0	154.3
1876.....	128.2	225.6	82.5	101.7	97.8	88.0	98.8	128.6
1877.....	110.4	200.9	84.7	102.9	102.0	100.0	114.3	118.0
1878.....	146.1	98.1	70.7	99.4	111.9	76.0	111.9	114.1
1879.....	129.9	84.7	76.4	96.0	97.8	80.0	109.8	124.8
1880.....	116.9	90.3	75.4	106.4	97.9	104.0	120.6	128.3
1881.....	149.4	112.1	109.3	109.2	104.9	96.0	115.7	155.3
1882.....	122.1	107.5	100.7	105.8	94.3	84.0	114.6	168.8
1883.....	-----	187.3	90.2	98.3	107.1	88.0	103.1	154.3
1884.....	110.4	139.9	89.5	93.6	107.1	88.0	105.7	160.1
1885.....	100.0	114.4	71.5	93.1	96.3	140.0	104.5	136.2
1886.....	103.9	140.2	68.1	87.9	89.7	108.0	99.3	129.1
1887.....	102.6	97.3	75.1	87.9	87.9	92.0	98.4	124.5
1888.....	110.4	90.5	75.1	96.5	112.0	76.0	90.0	140.7
1889.....	89.3	115.1	57.8	100.6	110.8	96.0	74.8	111.2
1890.....	101.0	78.5	81.7	96.0	127.3	104.0	80.1	121.0
1891.....	92.9	104.8	89.1	80.3	82.8	92.0	70.0	138.1

TABLE 33.—*Relative prices of agricultural products, individual products—Concluded.*

Year.	Meat, hogs.	Meat, sheep.	Oats.	Rye.	Timothy seed.	Tobacco.	Wheat.	General average.
1840.....	50.5	.....	102.0	79.6	82.8	94.1	72.8	87.3
1841.....	54.8	.....	126.8	89.2	98.3	91.2	61.6	91.4
1842.....	53.3	.....	70.6	75.8	66.2	55.9	95.6	72.8
1843.....	43.5	40.0	69.9	80.3	88.4	58.8	56.3	65.2
1844.....	59.8	.....	86.3	84.7	68.4	51.5	70.2	73.1
1845.....	61.0	.....	105.9	87.3	81.6	60.3	71.2	78.0
1846.....	61.7	.....	100.7	100.6	76.6	57.4	92.2	79.2
1847.....	75.9	46.0	142.5	108.3	87.0	69.1	81.4	100.6
1848.....	65.5	.....	89.5	87.9	101.4	61.8	88.3	83.8
1849.....	53.2	.....	94.1	76.4	107.0	79.4	78.3	83.3
1850.....	61.8	.....	111.1	86.9	120.0	102.9	76.4	94.3
1851.....	68.2	90.0	104.6	86.9	117.2	103.1	70.2	92.5
1852.....	91.2	80.0	118.3	109.6	99.2	73.5	64.2	94.8
1853.....	92.4	100.0	127.5	115.3	86.3	76.8	81.7	102.0
1854.....	73.7	120.0	132.7	152.9	125.7	78.5	122.0	114.0
1855.....	102.6	120.0	117.6	147.8	125.6	73.7	152.4	120.6
1856.....	92.0	.....	117.6	108.3	133.8	124.1	131.2	126.4
1857.....	104.9	.....	117.6	89.2	122.6	174.4	107.0	119.4
1858.....	74.2	.....	134.6	101.9	78.1	134.4	76.2	106.4
1859.....	82.1	66.0	108.5	103.8	97.5	100.7	96.6	102.3
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	56.0	85.3	90.2	87.3	67.8	95.3	92.3	91.7
1862.....	58.7	127.4	150.3	80.3	71.9	186.9	86.7	131.7
1863.....	61.7	137.4	183.7	138.5	103.4	178.3	101.2	176.6
1864.....	186.3	196.2	227.5	184.7	211.6	200.2	116.4	259.8
1865.....	218.4	174.3	156.9	127.4	174.6	125.8	140.5	194.6
1866.....	166.1	151.0	149.0	159.2	134.1	107.7	115.9	171.7
1867.....	110.3	139.8	198.7	204.5	109.4	137.9	213.4	171.4
1868.....	150.4	115.7	189.5	191.1	127.1	166.5	193.0	172.8
1869.....	155.8	126.8	167.3	148.4	133.0	168.0	119.1	162.4
1870.....	134.3	124.8	139.9	114.6	212.2	158.1	84.7	146.9
1871.....	77.1	119.8	138.6	118.5	124.0	187.5	118.2	130.4
1872.....	80.6	156.7	115.0	108.3	139.4	181.0	118.5	129.2
1873.....	77.2	127.2	136.6	113.4	124.2	215.5	130.3	132.6
1874.....	103.3	147.2	158.8	119.7	114.5	180.2	121.5	137.5
1875.....	133.2	146.9	117.6	114.6	107.0	160.8	94.6	126.1
1876.....	97.4	137.2	112.4	104.5	76.7	145.7	101.3	115.1
1877.....	86.8	131.2	88.9	94.9	58.7	148.9	117.2	110.7
1878.....	60.8	116.5	75.8	82.2	73.9	137.4	106.6	98.8
1879.....	63.0	121.5	94.1	101.9	92.6	119.3	84.2	98.4
1880.....	83.6	137.5	110.1	122.3	105.1	137.8	112.3	109.9
1881.....	105.8	149.0	119.6	140.8	121.7	134.4	93.3	121.1
1882.....	134.4	137.4	103.4	101.3	83.8	141.1	116.4	114.4
1883.....	82.0	126.6	92.0	92.4	56.3	138.2	88.8	100.3
1884.....	83.6	126.5	81.5	88.2	60.2	152.6	83.5	104.7
1885.....	68.3	118.3	86.6	79.0	76.3	122.3	71.1	93.9
1886.....	74.8	124.7	93.5	70.1	83.1	100.6	74.0	96.5
1887.....	81.2	121.6	92.6	70.1	96.9	122.5	73.6	94.9
1888.....	100.8	125.9	78.1	83.4	75.0	110.8	71.0	95.7
1889.....	74.7	140.5	68.3	63.7	58.5	122.2	86.0	91.3
1890.....	70.0	139.0	114.7	87.9	58.9	129.8	70.8	97.4
1891.....	79.3	137.8	86.6	123.6	51.4	140.0	87.7	97.1

The table includes a final column containing the average of the quotations, giving each an equal importance in the result. Of the fifteen articles on the list the prices have increased since 1860 in five cases, while prices have fallen in the remaining cases. The range of relative prices is from 51.4 for timothy seed to 140 for tobacco. On the whole, measured by the system here adopted, prices stand somewhat below those of 1860, the average being 97.1. An omission of the comparatively unimportant prices for clover seed, timothy seed, flaxseed, and hemp, in the formation of the average would bring about a change of 5 per cent. The average of the remaining eleven articles is 102.1.

But this does not give the true result. An average of all the articles except hides, seeds, clover and timothy and flaxseed, on the basis of the production of those articles in 1880, gives for 1891 the result 98.4. Whatever method be applied, it is clear that the prices of these farm products are to-day about where they were in 1860. This confirms what has been previously said about the price of food in 1891 as compared with 1860.

If we make our comparison with 1840, we shall find that of fourteen articles represented in 1840, prices were lower than in 1891 in ten cases, and higher in but four. These four are oats, clover seed, timothy seed, and hides. The general average assigning each article an equal weight was 87.3 in 1840, and 97.1 in 1891. Prices have advanced something over 10 per cent since 1840.

If we consider the course of these prices as portrayed in the columns of Table 33 we shall find much fluctuation in prices. In nearly all the important articles low prices ruled in the forties, while in the fifties an advance in price took place which culminated in 1855-'56 and subsided again towards 1860. The level of 1855 and 1856 is in some instances high above that of 1860. In 1855 barley reached 162.3, corn 125.5, oats 117.6, rye 147.8, and wheat 152.4. There is a falling off of prices in 1861, which in the main continues, except for cotton, until 1863, when prices move briskly upward. After 1875 we note fewer cases where prices are very much in advance of 1860.

If we turn from the individual quotations to the average, we shall find that before 1853 but a single year (1847) exceeds the average of 1860, and here the excess is less than 1 per cent. After 1853 prices average higher than in 1860, although the excess is slight in 1858 and 1859. On the other hand, 1861 stands at 91.7. With the war and the paper currency, prices rise rapidly, reaching 259.8 in 1864, when cotton had advanced tenfold in price. After this date, the average falls until it is lower than the level of 1860 in 1878 and 1879, when it stands at 98.8 and 98.4. In the years which follow the average again rises, but since 1885 it has been permanently below the 1860 level.

This method of following the course of prices should be supplemented by a more exact approximation. Since 1860, at least, we are able to approximate the importance of the main products and give to each a proportionate influence in the result.

In Table 34 we give quantities of certain staple products with their values at census periods.

TABLE 34.—*Products of agriculture.*

[In this statement the quantities are as reported by the Censuses of 1860, 1870, and 1880, and refer to the previous year, the values as fixed after investigation by the statistician of the Department of Agriculture.]

Article.	Quantities.			Values.		
	1860.	1870.	1880.	1860.	1870.	1880.
Barley .....bush..	15, 825, 898	29, 761, 305	43, 997, 495	\$8, 704, 244	\$24, 285, 225	\$29, 302, 332
Corn .....do.....	838, 792, 740	760, 944, 549	1, 754, 591, 676	360, 680, 878	572, 991, 245	694, 818, 304
Cotton .....pounds..	2, 274, 372, 309	.....	2, 771, 797, 156	211, 516, 625	303, 600, 000*	271, 636, 121
Hemp .....tons....	74, 493	12, 746	5, 025	14, 153, 670	2, 485, 470	1, 005, 000
Oats .....bush....	172, 643, 185	282, 107, 157	407, 858, 999	43, 160, 796	134, 283, 007	146, 829, 240
Meat†.....	.....	.....	.....	300, 000, 000	515, 000, 000	800, 000, 000
Rye .....bush....	21, 101, 380	16, 918, 795	19, 831, 595	10, 972, 718	16, 428, 150	14, 992, 686
Tobacco.....pounds..	434, 209, 461	262, 735, 341	472, 661, 157	21, 710, 473	30, 740, 035	38, 758, 215
Wheat.....bush....	173, 104, 924	287, 745, 626	459, 483, 137	124, 635, 545	270, 768, 634	436, 968, 463

*The value of cotton is estimated from the cotton movement in 1870.

†The value of meat is estimated from the reports of farms, etc.

The values have been calculated by the statistical division of the Department of Agriculture and represent farm values. These figures enable us to ascertain the proportion of the articles named to each other. These proportions do not greatly change from census to census, and we may therefore apply them to the intervening years without

danger of serious error. For the same reason the figures for 1880 may be applied, without vitiating the result, to all the years which follow. It need not be insisted upon that the proportionate importance of these products in 1880 more nearly approximates that of 1891 than does an equal importance for each. For the years 1865-'69 and 1875-'79 we have used the average of the preceding and succeeding censuses. In this way the figures of Table 34, giving the value of certain products, furnish a system of weights to be attached to each quotation in ascertaining the true average price. From 1860-'65 articles are weighted in the proportions of their production by the census of 1860; from 1865-'69 by the proportion of the mean production in 1860 and 1870, and so on down to the present. The method is familiar from the preceding pages of this report, and the results are embodied in Table 35.

TABLE 35.—*Prices of staple agricultural products measured by their production, 1860–1891.*

Year.	Price.	Year.	Price.	Year.	Price.	Year.	Price.
1860	100.0	1868.....	179.1	1876.....	103.7	1884.....	100.8
1861	104.2	1869.....	163.9	1877.....	102.5	1885.....	87.9
1862	176.7	1870.....	130.6	1878.....	90.9	1886.....	87.5
1863	247.1	1871.....	127.6	1879.....	91.1	1887.....	89.6
1864	379.0	1872.....	124.3	1880.....	102.9	1888.....	93.6
1865	210.3	1873.....	119.5	1881.....	117.1	1889.....	86.5
1866	185.6	1874.....	137.6	1882.....	120.3	1890.....	93.7
1867	181.9	1875.....	131.4	1883.....	102.0	1891.....	98.4

This table omits clover seed, flaxseed, hides, and timothy seed, but includes all the other articles, meats being averaged to form a single quotation. The table shows the average price in 1891 for these articles to be but 1.6 per cent less than in 1860. The advance of cotton prices raises the general average in the early sixties. It will be interesting to note the effects which follow the omission of cotton. The relative prices are as follows:

1861.....	81.5	1864.....	199.1
1862.....	93.9	1865.....	159.1
1863.....	119.2	1866.....	152.8

Exclusive of cotton, therefore, agricultural prices were subject to no greater fluctuations than those which characterized prices generally. After 1866 the price of cotton becomes normal and has a proper place in the averages of the succeeding years. The high prices of 1867 were gradually reduced with the lapse of years until, in 1876, relative prices stood at 103.7 as compared with 1860. In 1878 they stood at 90.9, but in 1881 and 1882 there was an advance. In 1883 and 1884 the level of prices is nearly the same as in 1860, but in the following years it is lower. The lowest stand was in 1886, at 87.5. Since 1889 there has been a considerable advance, and in 1891 prices were only a little less than in 1860.

PRICES IN GOLD.

The premium on gold was a disturbing element in the formation of prices during the years 1862–1878. In Table 36 we have reduced to the gold basis the two averages of agricultural products, drawn respectively from Tables 33 and 35.

TABLE 36.—*Average prices of agricultural products, in gold, 1860–1891.*

Year.	Simple average of 15 products (from Table 33).	Weighted average of 9 products (from Table 35).	Year.	Simple average of 15 products (from Table 33).	Weighted average of 9 products (from Table 35.)
1860	100.0	100.0	1876	102.0	91.9
1861	91.7	104.2	1877	104.2	96.5
1862	128.5	172.4	1878	97.0	89.7
1863	121.7	170.3	1879	98.4	91.1
1864	167.1	243.7	1880	109.9	102.9
1865	90.0	97.3	1881	121.1	117.1
1866	122.6	132.5	1882	114.4	120.3
1867	127.3	135.1	1883	100.3	102.0
1868	124.8	129.3	1884	104.7	100.8
1869	119.8	120.9	1885	93.9	87.9
1870	121.1	107.7	1886	96.5	87.5
1871	117.8	115.3	1887	94.9	89.6
1872	118.4	113.9	1888	95.7	93.6
1873	117.7	106.0	1889	91.3	86.5
1874	123.4	123.5	1890	97.4	93.7
1875	112.1	116.8	1891	97.1	98.4

The first column gives the average of fifteen distinct products of Table 33, while the second column repeats Table 35, but expressing the prices of 1862–1878 in gold instead of currency. A striking feature of the table are the low prices of 1865. It will also be noticed that on the gold basis the second column shows only a few years since 1865 which are higher than 1882. They are 1866, 1867, 1868, 1869, and 1874. This table shows the same tendencies as Table 35, but in a less degree.

RATES OF WAGES FOR FIFTY-TWO YEARS.

The necessary counterpart of the investigation which has been made into prices and the cost of living is the investigation into wages for the same period. The results of the investigation conducted by the Department of Labor are embodied in Table XII of the report. They are exceedingly comprehensive and cover wages in twenty-two more or less distinct industries. Not only the extent of the investigation, but its wealth of detail must command respect. There are 61 series of wage returns which begin as early as 1840, and as many as 543 distinct series which cover the period from 1860 to 1891. With a showing as complete as this is there can be no doubt that we shall obtain a much clearer view of the present status of wages and their course during the period in question than has heretofore been obtainable.

The familiar methods of analysis which have served so well the purposes of the committee have been applied here. The wages in January, 1860, are taken as the basis, and subsequent wages are calculated as percentages of the same. In this manner we secure the relative wages shown in Table 37.

TABLE 37.—*Rates of wages for 52 years—Relative wages.*

AGRICULTURAL IMPLEMENTS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	1. Fore- men, wood- work- ers.	1. Labor- ers.	1. Ma- chinists.	1. Paint- ers.	1. Wood- work- ers.
1840					
1841					
1842					
1843					
1844					
1845					
1846					
1847					
1848					
1849					
1850					
1851					
1852					
1853					
1854					
1855					
1856					
1857	99.4	91.5	95.2		106.0
1858	99.4		97.6		112.4
1859	100.0	83.5	90.1		106.0
1860	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	107.5	100.0	103.6
1862	99.1	87.5	100.0	100.0	112.4
1863	107.6	89.5	112.6		112.4
1864	122.0	116.5	107.5	88.8	123.6
1865	152.4	150.0	125.2	113.2	168.5
1866	175.3	162.5	130.9	124.4	191.0
1867	170.1	168.5	129.4	132.0	177.9
1868	182.9	151.5	136.6	120.0	170.4
1869	182.9	155.0	129.1	120.0	170.4
1870	182.9	156.0	136.3	120.0	167.8
1871	182.9	141.5	134.2	130.0	171.9
1872	182.9	147.0	134.2	136.8	168.9
1873	182.9	145.0	133.0	133.2	167.8
1874	182.9	150.0	129.4	150.8	172.3
1875	182.9	143.0	131.2	156.0	179.4
1876	164.6	135.0	113.8	141.6	151.3
1877	164.6	121.0	108.7	122.0	130.7
1878	164.6	127.0	108.7	116.0	136.7
1879	164.6	120.0	103.9	120.0	132.2
1880	164.6	123.0	114.1	97.2	125.8
1881	164.6	122.5	109.6	102.0	124.3
1882	164.6	130.5	119.8	112.0	140.1
1883	164.6	138.0	121.3	134.8	140.4
1884	164.6	138.0	121.0	125.2	139.7
1885	164.6	127.0	115.6	121.6	131.1
1886	182.9	129.5	121.3	126.8	139.7
1887	182.9	130.0	121.3	126.8	140.4
1888	182.9	134.5	114.1	126.4	137.1
1889	182.9	133.5	117.1	116.0	139.3
1890	182.9	130.5	123.4	122.0	136.0
1891	182.9	137.0	121.3	120.4	128.1

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

ALE, BEER, AND PORTER.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	2. Brew- ers.	2. Coop- ers.	2. Fore- men, la- borers.	2. Labor- ers.	2. Team- sters.
1840					
1841					
1842					
1843				78.2	
1844				68.8	
1845					
1846					
1847					
1848					
1849					
1850					
1851					
1852					
1853					
1854				98.8	
1855	50.0	96.0	100.0	97.1	79.5
1856	100.0	94.0	100.0	92.9	66.3
1857	100.0	97.0	100.0	95.9	71.9
1858	100.0	96.3	100.0	99.4	84.4
1859	100.0	97.3	100.0	100.0	88.9
1860	100.0	100.0	100.0	100.0	100.0
1861	100.0	101.0	120.1	98.8	106.6
1862	150.0	101.3	120.1	98.8	106.6
1863	150.0	101.3	120.1	102.4	106.6
1864	150.0	124.9	123.9	133.5	106.6
1865	150.0	126.6	136.2	150.6	106.6
1866	250.0	146.2	131.7	154.1	106.6
1867	250.0	152.2	131.7	154.1	106.6
1868	250.0	163.5	131.7	154.7	119.8
1869	250.0	168.8	148.1	154.7	119.8
1870	250.0	177.1	144.8	160.0	110.4
1871	250.0	166.1	144.8	164.1	115.3
1872	250.0	174.4	141.4	163.5	116.3
1873	250.0	194.4	141.4	162.9	113.2
1874	250.0	199.3	158.2	167.6	116.0
1875	250.0	180.7	158.2	167.6	116.3
1876	150.0	199.3	165.3	165.9	116.3
1877	150.0	199.3	165.3	169.4	112.8
1878	250.0	199.3	165.3	168.8	112.8
1879	250.0	182.7	142.9	169.4	113.5
1880	250.0	182.7	164.6	168.2	115.3
1881	300.0	182.7	142.9	170.0	116.3
1882	300.0	180.4	152.6	170.6	114.9
1883	175.0	182.7	152.6	169.4	112.8
1884	262.5	182.7	160.8	168.2	113.9
1885	262.5	182.7	168.3	171.2	114.6
1886	262.5	182.7	168.3	172.4	115.3
1887	375.0	182.7	168.3	171.2	113.5
1888	375.0	185.4	193.7	227.1	144.8
1889	375.0	185.4	193.7	226.5	143.1
1890	375.0	185.4	193.7	224.7	143.8
1891	375.0	185.4	195.1	222.4	145.8

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

BOOKS AND NEWSPAPERS.

{The figures in the heading indicate the establishment number as tabulated in Table XII.}

Year.	5. Carpen- ters.	3. Com- posi- tors.	5. Com- posi- tors.	6. Com- posi- tors.	3. Com- posi- tors, (piece work- ers).	3. Com- posi- tors, ap- pren- tices.	6. Com- posi- tors, ap- pren- tices.	5. Com- posi- tors, learn- ers.	5. Fold- ers.	6. Fold- ers.	5. Fore- men, compos- itors.
1840											
1841											
1842		75.0			96.0	17.1					
1843		75.0			100.0	27.9					
1844					100.0	35.1					
1845		75.0			100.0	38.7					
1846		83.3			100.0	39.6					
1847		83.3			100.0	34.2					
1848		83.3			100.0	34.2					
1849					120.0	29.7					
1850					120.0	53.2					
1851				81.7	120.0	36.0	77.5			79.0	
1852				81.7	120.0	45.9	84.1			91.0	
1853				90.7	120.0	64.9	92.1			75.0	
1854				100.0	120.0	52.3	76.2			72.0	
1855				90.7	120.0	60.4	80.1			83.0	
1856				90.7	100.0	55.9	67.5			87.0	
1857		100.0		100.0	100.0	55.0	87.4			72.0	
1858	95.1		100.0		100.0	100.0	109.3	92.8	96.8	75.0	100.0
1859	97.3		99.1	107.9			96.0	87.8	98.9	83.0	100.0
1860	100.0		100.0	100.0			100.0	100.0	100.0	100.0	100.0
1861	95.1		99.1	108.2			88.1	75.5	91.5	87.0	100.0
1862	95.1		98.8	106.0			93.4	81.3	100.0	67.0	100.0
1863	101.5		99.1	106.8			89.4	93.5	104.3		100.0
1864	101.5	108.3		113.6	150.0	77.5	121.2				
1865	126.6	137.5	150.5	137.9	160.0	82.0	98.0	107.9	109.6		150.0
1866	139.5	125.0	150.5	133.5	160.0	116.2	96.7	120.1	119.1		150.0
1867	139.5		150.5	136.2	172.0	150.5	102.0	136.7	125.5		150.0
1868	190.1	143.8	180.2	163.5	172.0	132.4	92.1	138.8	127.7		170.8
1869	190.1	162.5	180.2	163.5	172.0	135.1	113.2	115.8	138.3		170.8
1870	180.6		180.2	163.5			105.3	120.9	139.4		170.8
1871	180.6		180.2	163.5			94.7	138.1	148.9		170.8
1872	180.6	152.8	180.2	163.5	150.0	130.6	107.3	140.3	147.9	100.0	170.8
1873	180.6	145.8	180.2	162.9	150.0	153.2	93.4	141.0	148.9		170.8
1874	180.6	145.8	180.2	133.0	150.0	150.5	102.0	123.0	145.7		170.8
1875	209.1	129.8	180.2	163.5	138.0	140.5	107.3	116.5	155.3		170.8
1876	166.9	140.0	180.2	163.5	138.0	128.8	106.0	122.3	155.3		170.8
1877	171.1	127.8	180.2	145.5	148.0	139.6	116.6	81.3	155.3		170.8
1878	171.1	121.8	153.8	136.8	148.0	180.2	107.9	88.5	139.4		158.3
1879	171.1	114.0	152.3	135.7	146.0	156.8	118.5	100.7	127.7		158.3
1880	152.1	107.3	151.7	136.2	138.0	160.4	113.2	104.3	139.4		158.3
1881	152.1	113.8	154.4	128.9	138.0	174.8	110.6	102.2	137.2		
1882	152.1	111.8	126.4	128.9	138.0	112.6	102.0	128.8	112.8		158.3
1883	177.6	119.0	138.4	136.2	138.0	137.8	111.3	177.7	103.2		158.3
1884	190.1	127.8	133.6	136.2	138.0	147.7	98.0	78.4	116.0		158.3
1885	190.1	123.0	130.0	136.2	138.0	158.6	106.0		117.0		158.3
1886	190.1	123.0	142.6	136.2	138.0	130.6	126.5	89.9	118.1		158.3
1887	190.1	121.5	150.2	136.2	138.0	127.9	97.4	95.7	119.1		154.3
1888	190.1	124.8	150.2	136.2	138.0	142.3	106.0	100.0	125.5		154.3
1889	190.1	126.3	150.2	136.2	140.0	175.7	97.4	116.5	130.9		154.3
1890	190.1	122.5	150.2	136.2	138.0	132.4	95.4	123.0	145.7		154.3
1891	190.1	126.5	150.2	137.3	138.0	187.4	100.7	99.3	122.3		154.3

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

BOOKS AND NEWSPAPERS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	6. Fore- men, compos- itors.	5. Fore- men, press- men.	3. Labor- ers.	5. Machin- ists.	5. Porters.	3. Press feeders.	6. Press feeders.	3. Press- men.	5. Press- men.	6. Press- men.	5. Press- room hands.
1840											
1841											
1842						86.2					
1843						86.2					
1844						86.2					
1845						85.3					
1846						86.2					
1847						86.2		87.2			
1848			93.7			85.3		93.3			
1849			93.7			86.2		96.8			
1850			93.7			86.2		92.2			
1851	66.6		93.7			86.2		91.3		71.3	
1852	66.6		92.2			86.2		88.7		64.2	
1853	66.6		89.3			86.2		94.5		67.9	
1854	73.4		101.5			100.0		101.2		71.3	
1855	73.4		102.9			98.3		101.7		78.6	
1856	73.4		101.5			98.3		107.6		78.6	
1857	106.6		96.1			100.0		98.8		96.4	
1858	104.4	100.0	100.0	97.7	103.3	100.0		100.0		92.7	96.1
1859	100.0	100.0		93.0	100.0					92.7	104.9
1860	100.0	100.0		100.0	100.0				100.0	100.0	100.0
1861	100.0	100.0		95.3	115.3		100.0		100.0	92.7	98.1
1862	100.0	100.0		93.5	103.3		151.5		100.0	92.7	100.0
1863	100.0	100.0		91.8	118.6		151.5		100.0	92.7	103.9
1864	110.0					110.3	163.6	105.5		92.7	
1865	129.0	133.3	122.0	161.3	143.7	144.0	189.4	135.2	150.2		132.0
1866	129.0	150.0		152.8	143.7	158.6	201.5	132.8	130.0		135.9
1867	129.0	150.0			142.6	172.4	200.0	146.2	130.0		137.9
1868	131.2	150.0	158.5		148.6	172.4	221.2	146.2	153.5		170.9
1869	133.4	150.0	158.5	165.1	145.9	183.6	225.8	152.3	153.5	128.5	172.8
1870	133.4	150.0		151.0	149.7		253.0		180.2	100.0	164.1
1871	137.8	150.0		158.9	151.9		254.5		180.2	92.7	194.2
1872	137.8	150.0	170.7	158.9	163.9	175.0	297.0	170.9	172.7	105.8	180.6
1873	141.8	150.0	162.4	168.6	188.0	174.1	284.8	176.5	180.2	119.1	171.8
1874	141.8	150.0	195.1	161.3		178.4	231.8	181.1	180.2	101.5	183.5
1875	141.8	150.0	170.7	161.3	200.5	172.4	218.2	163.4	180.2	119.1	154.4
1876	137.4	150.0	166.8		182.0	169.0	231.8	161.9	180.2	121.4	144.7
1877	136.0	150.0	146.3	117.3	143.7	168.1	251.5	156.7	180.2	124.8	154.4
1878	126.6	150.0	117.1	105.6	136.6	168.1	251.5	148.0	180.2	123.1	145.6
1879	124.0	150.0	122.0	97.7	135.0	168.1	260.6	117.7	180.2	100.0	142.7
1880	130.0	150.0	146.3	107.6	124.6	167.2	251.5	123.8	170.3	100.0	122.3
1881	124.4	150.0	146.3	110.9	130.6	168.1	225.8	136.6	180.2	96.4	145.6
1882	126.6	150.0	146.3	117.3	130.6	166.4	234.8	141.0	180.2	96.4	158.3
1883	126.6	150.0		132.0	145.9	161.2	251.5	137.8	180.2	100.0	149.5
1884	126.6	150.0		132.0	139.9	168.1	251.5	134.3	167.0	100.0	158.3
1885	126.6	150.0	122.0	146.6	145.9	158.6	233.3	135.2	160.1	96.4	171.8
1886	126.6	150.0	122.0	146.6	145.9	163.8	237.9	143.9	166.7	104.7	151.5
1887	133.4	150.0	122.0	146.6	151.9	189.7	237.9	142.4	166.7	100.0	153.4
1888	130.0	150.0	122.0	146.6	151.9	189.7	230.3	141.0	163.4	105.4	169.9
1889	136.6	150.0	122.0	146.6	157.9	193.1	251.5	135.5	160.1	100.0	152.4
1890	126.6	150.0	146.3	146.6	157.9	193.1	225.8	142.4	160.1	107.1	156.3
1891	120.0	150.0	146.3	146.6	157.9	199.1	243.9	137.8	163.4	107.1	142.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

BUILDING TRADES.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	12. Brick- layers.	22. Brick- layers.	26. Brick- layers.	12. Brick- layers' helpers.	22. Brick- layers' helpers.	26. Brick- layers' helpers.	7. Carpen- ters.	8. Carpen- ters.	13. Carpen- ters.	17. Carpen- ters.	19. Carpen- ters.
1840							83.1				
1841							83.1				
1842							85.4				
1843							85.4				75.0
1844							85.4				75.0
1845							82.0				87.5
1846							85.4				100.0
1847							85.4				100.0
1848							82.0				100.0
1849							82.0				100.0
1850							90.3				100.0
1851		87.5			80.0		91.4				100.0
1852		87.5			80.0		94.3				100.0
1853		87.5			80.0		95.7				100.0
1854		87.5			80.0		107.1		99.3	97.7	106.0
1855		87.5			80.0		85.7		98.5	92.2	100.0
1856		87.5			80.0		85.7		100.0	105.0	93.8
1857		87.5			80.0		100.0		104.9	103.5	100.0
1858		75.0			60.0		85.7		103.0	100.0	100.0
1859	114.5	75.0		113.3	80.0		100.0	99.4	107.2	91.2	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	117.7	100.0	100.0	110.3	100.0	111.6	85.7	88.8	89.8	111.5	100.0
1862	121.7	112.5	112.5	121.2	100.0	111.6	85.7	90.6	102.3	115.4	100.0
1863	122.0	125.0		119.7	130.0		100.0	113.9	114.8	138.5	100.0
1864	152.0	150.0	125.0	147.8	180.0	133.9		132.5	128.8	153.8	150.0
1865	170.1	150.0	150.0	147.8	180.0	178.6	157.1		158.3	158.8	162.5
1866	193.4	200.0	150.0	172.4	200.0	178.6	160.9		180.7	178.8	175.0
1867	208.6	250.0	175.0	147.8	220.0	200.9	185.7		190.2	184.6	187.5
1868	247.4	225.0	175.0	197.0	200.0	200.9	174.3		205.7	182.7	200.0
1869	228.6	250.0	175.0	197.0	220.0	178.6	173.7	175.7	188.6	191.2	200.0
1870	253.3	250.0	175.0	209.4	220.0	178.6	185.7	161.5	183.7	186.5	175.0
1871	236.5	200.0	200.0	199.0	180.0	200.9		163.3	179.5	191.2	175.0
1872	205.9	200.0	200.0	183.7	200.0	223.2		161.2	197.3	185.0	175.0
1873	210.9	200.0	187.5	190.6	200.0	223.2	185.7	176.9	187.9	176.2	175.0
1874	224.7	175.0	175.0	191.1	200.0	200.9	157.1	171.6	192.4	174.2	187.5
1875	217.1	150.0	162.5	194.1	160.0	178.6	157.1	157.7	171.6	172.7	160.0
1876	226.0	125.0	150.0	189.7	140.0	156.3	157.1	139.3	150.0	160.4	140.0
1877	177.6	125.0	137.5	177.8	120.0	156.3	109.4	133.1	132.6	139.6	125.0
1878	183.2	125.0	112.5	177.8	120.0	133.9	128.6	133.1	130.7	137.7	125.0
1879	176.6	125.0	112.5	175.9	120.0	133.9	100.0		126.9	131.5	125.0
1880	184.9	150.0	100.0	172.4	140.0	133.9	128.6		131.8	138.8	150.0
1881	197.4	225.0	150.0	165.5	200.0	156.3	138.0		150.0	153.5	162.5
1882	201.3	200.0	150.0	163.1	200.0	156.3	157.1		146.2	166.9	175.0
1883	190.5	200.0	162.5	180.8	200.0	178.6	162.9	146.4	137.1	165.8	175.0
1884	200.0	200.0	162.5	147.8	200.0	178.6	157.1	147.9	143.2	165.8	175.0
1885	225.0	200.0	187.5	157.1	200.0	200.9	157.1	151.5	137.9	158.8	175.0
1886	209.5	200.0	187.5	156.7	200.0	200.9	157.1	163.3	148.5	160.4	175.0
1887	219.4	200.0	187.5	151.2	200.0	200.9	157.1	150.0	146.2	166.5	175.0
1888	201.3	200.0	187.5	147.8	200.0	200.9	157.1	150.3	147.3	168.8	175.0
1889	218.8	200.0	187.5	147.8	200.0	200.9	157.1	152.7	158.0	167.3	175.0
1890	213.8	225.0	187.5	152.7	200.0	200.9	178.6	151.2	160.6	166.2	175.0
1891	206.3	200.0	200.0	154.2	200.0	200.9	178.6	154.1	147.7	163.1	175.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

BUILDING TRADES—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	27. Car- pen- ters.	28. Car- pen- ters.	13. Car- pen- ters' help- ers.	17. Car- pen- ters' help- ers.	17. Car- pen- ters' appren- tices.	12. Fore- men, brick- layers.	13. Fore- men, car- pen- ters.	12. Fore- men, masons.	13. Fore- men, paint- ers.	9. Hod carri- ers.	16. Labor- ers.
1840		71.4									
1841		71.4									
1842		71.4									
1843		71.4									
1844		71.4									
1845		71.4									
1846		71.4									
1847		85.7									
1848		85.7									
1849	71.4	85.7									
1850	71.4	85.7									63.6
1851	71.4	85.7									74.2
1852	71.4	85.7								91.3	74.2
1853	85.7	85.7									84.7
1854	85.7	85.7	78.3		113.0		89.8		88.7	98.2	84.7
1855	85.7	85.7	100.0	117.1	140.2		100.0		88.7	91.3	84.7
1856	85.7	85.7	90.4	110.8	139.1		100.0		100.0	91.3	84.7
1857	85.7	85.7	100.0	119.6	108.7		100.0		100.0	105.9	90.3
1858	85.7	85.7	100.0	115.8	129.3		100.0		100.0	91.3	84.7
1859	100.0	85.7	100.0	126.6	118.5	100.0	100.0	100.0	100.0	121.5	97.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	114.3	100.0	115.8	71.7	100.0	100.0	120.0	100.0	91.3	84.7
1862	114.3	142.9	90.4	140.5	81.5	100.0	104.8	100.0		91.3	84.7
1863	114.3	171.4	120.5	158.2	108.7	110.0	119.8	100.0	111.3	147.9	97.0
1864	128.6	171.4	120.5		148.9		134.7	120.0	116.7	145.7	116.5
1865	133.4	142.9	150.6	189.9			149.7	160.0	150.0	152.1	153.0
1866	151.1	142.9	210.8	189.9		160.0	194.6	160.0	183.3	152.1	155.1
1867	152.3	142.9	180.7	189.9		180.0	194.6	160.0	200.0	157.5	153.0
1868	153.1	142.9	165.7	189.9		180.0	194.6	170.0	183.3	174.0	153.0
1869	152.9	142.9	180.7	189.9		180.0	194.6	200.0	200.0	180.4	155.1
1870	152.3	142.9	180.7	189.9		200.0	209.6	200.0	183.3	179.0	131.8
1871	154.3	157.1	180.7	189.9	144.6	200.0	209.6	200.0	200.0	182.6	139.4
1872	153.1	157.1	180.7	189.9	151.1	200.0	209.6	200.0	200.0	181.3	164.8
1873	152.0	157.1	180.7	174.1	144.6	200.0	209.6	200.0	200.0	181.3	165.7
1874	150.0	157.1	160.2	192.4	179.3	200.0	209.6	200.0	200.0	182.6	155.5
1875	134.6	157.1		176.6	175.0	200.0	209.6	200.0	200.0	163.0	155.5
1876	132.6	157.1	150.6	176.6	162.0	200.0	194.6	180.0	166.7	143.8	169.5
1877	121.4	157.1	130.7	174.1	217.4	190.0	194.6	180.0	166.7	117.4	169.5
1878	122.6	157.1	142.8	164.6		160.0	179.6	160.0	150.0	121.9	141.1
1879	126.9	157.1	138.6	181.6	127.2	140.0	179.6	160.0	150.0	116.4	141.1
1880	131.1	157.1	145.8	174.1	108.7	140.0	194.6	160.0	166.7	144.3	112.7
1881	143.7	157.1	150.0	186.1	154.3	160.0	239.5	160.0	183.3	179.5	127.1
1882	156.0	157.1	142.2	189.9		200.0	239.5	200.0	166.7	181.7	127.1
1883	156.0	157.1	139.2	163.3		200.0		240.0	150.0	181.3	127.1
1884	153.1	157.1	150.6	177.2	108.7	200.0		200.0		181.7	127.1
1885	153.1	157.1	142.8	189.9	180.4	200.0		200.0		180.8	127.1
1886	152.9	154.3	150.6	181.6		200.0		200.0		182.6	127.1
1887	156.0	154.3	139.8	189.9		190.0		200.0		182.6	137.7
1888	155.1	154.3	152.4	174.1		200.0		200.0		182.6	137.7
1889	160.3	154.3	140.4			200.0		180.0		182.6	137.7
1890	162.0	154.3	133.1	167.1		180.0		180.0		182.6	148.3
1891	163.4	154.3	138.0	185.4		180.0		180.0		189.5	148.3

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

BUILDING TRADES—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	17. Labor- ers.	17. Ma- chine hands.	17.. Machine hands' helpers.	9. Masons.	12. Masons.	12. Mason's helpers.	10. Paint- ers.	13. Paint- ers.	18. Paint- ers.	23. Paint- ers.	15. Paint- ers, house.
1840							71.4		75.0		
1841							71.4		75.0		
1842							76.3		75.0		
1843							77.1		75.0		
1844							79.4		75.0		
1845							81.4		75.0		
1846							81.4		75.0		
1847							85.7		75.0		
1848							85.7		75.0		
1849							85.7		75.0		
1850							85.7		87.5		
1851							85.7		87.5		
1852				88.3			85.7		87.5		
1853				89.7					87.5		
1854	94.3			94.6				94.5	100.0		
1855	85.2			87.3				91.1	100.0		
1856	85.2	100.0	100.0	94.9			100.0	100.4	100.0	89.3	
1857	85.2			97.8			100.0	112.2	100.0	91.4	89.7
1858	85.2			100.5			100.0	109.3	87.5	89.0	105.8
1859	100.0			101.0	108.8	106.7	100.0	96.6	100.0	101.6	99.1
1860	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	109.1			97.8	112.9	92.9	85.7	97.5	100.0	92.7	100.0
1862	142.0			97.8	123.8	111.0	85.7	101.7	100.0	91.4	100.9
1863	113.6	108.3		113.2	120.1	114.3	100.0	105.5	112.5	113.1	100.9
1864		133.3		121.0	119.7	142.9	142.9	127.4	150.0	150.1	173.1
1865		133.3		137.9	160.8	142.9	142.9	168.8	175.0	185.4	191.9
1866	156.3	150.0	64.0	146.7	196.6	166.7	142.9	179.3	175.0	182.8	195.1
1867		150.0		167.5	193.7	154.3	171.4	197.0	200.0	204.4	215.7
1868	170.5	139.0		195.1	230.4	190.5	171.4	177.2	175.0	200.3	213.0
1869		139.0		195.6	214.1	185.7	171.4	186.9	225.0	208.9	224.2
1870		133.3		194.1	223.5	207.1	171.4	153.2	175.0	163.2	221.5
1871	127.8		33.2	187.8	227.3	195.7	171.4	197.0	175.0	182.8	211.2
1872	164.8	125.0	52.8	192.4	245.1	190.5	142.9	192.8	175.0	182.8	216.1
1873	155.1	143.7	41.6	194.1	206.9	178.6	142.9	211.0	175.0	182.8	205.4
1874	156.3	145.0	48.0	192.4	205.6	166.7	142.9	189.9	175.0	182.8	199.1
1875	132.4	140.3	48.4	166.5	187.8	161.0	142.9	181.9	175.0	178.3	212.1
1876	165.9	140.7	55.2	140.3	163.0	161.0	114.3	168.8	175.0	114.9	222.4
1877	127.8	125.0	53.2	125.7	163.6	162.4	114.3	154.4	125.0	124.0	230.0
1878	121.0	121.3	57.2	122.2	154.5	162.9	114.3	162.9	125.0	117.5	217.9
1879	126.7	116.7	60.8	110.8	159.6	162.4	114.3	135.0	150.0	117.5	218.4
1880	140.9	118.3	60.4	131.3	152.0	166.7	114.3	156.1	150.0	143.6	204.9
1881	140.9	121.7	60.4	151.3	184.6	145.2	114.3	160.8	150.0	156.7	195.1
1882	182.4	128.7	58.0	169.7	169.6	166.7	114.3	156.1	150.0	147.0	224.2
1883	141.5	125.7	56.8	184.6	172.4	190.5	142.9	133.8	150.0	156.7	232.7
1884	152.3	133.3	64.8	184.1	229.2	142.9	142.9	135.0	150.0	182.8	230.0
1885	139.8	128.7	68.0	181.7	224.5	158.1	142.9	156.1	150.0	163.7	218.4
1886	152.3	131.3	56.0	181.2	225.4	159.5	142.9	159.9	150.0	182.8	212.1
1887	156.3	137.7	57.2	173.8	213.8	142.9	142.9	158.2	150.0	182.8	213.0
1888	147.2	132.3	61.6	175.1	221.3	142.9	142.9	149.8	175.0	182.8	209.9
1889	146.0	127.7	53.2	173.3	214.7	147.6	142.9	166.2	175.0	182.8	218.4
1890	156.3	130.3	61.6	178.7	218.5	155.2	142.9	147.7	175.0	182.8	204.9
1891	156.8	121.0	61.6	183.6	206.9	156.2	142.9	160.8	175.0	182.8	204.9

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued*

BUILDING TRADES—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	22. Plas- terers.	29. Plas- terers.	16. Plumb- ers.	20. Plumb- ers.	24. Roof- ers.	21. Roofers, slate and metal.	14. Steam and gas fitters.	14. Steam and gas fitters' helpers.	17. Team- sters.	16. Tin- smiths.
1840.....		88.8				120.0				
1841.....		88.8				120.0				
1842.....		88.8				120.0				
1843.....		88.8				120.0				
1844.....		88.8				120.0				
1845.....		88.8				120.0				
1846.....		88.8				120.0				
1847.....		96.2				120.0				
1848.....		95.6				120.0				
1849.....		97.0				120.0				
1850.....		96.2	75.0			120.0				72.7
1851.....	87.5	96.2	75.0	101.3		120.0				75.6
1852.....	87.5	97.3	75.0	101.3		120.0				80.6
1853.....	87.5	94.7	75.0	115.5		100.0				89.8
1854.....	87.5	96.2	79.3	115.5	91.3	100.0			82.7	89.5
1855.....	87.5	97.9	87.5	115.5	90.4	100.0			116.7	88.6
1856.....	87.5	97.3	81.3	115.5	97.9	100.0			116.7	86.0
1857.....	87.5	97.9	81.3	114.7	103.3	100.0			133.3	95.6
1858.....	75.0	98.5	84.3	115.5	100.6	100.0	99.1	104.8	100.0	95.6
1859.....	75.0	99.4	100.0	101.3	103.6	100.0	109.3	100.0		96.8
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0			100.0
1861.....	100.0	97.9	100.0	100.0	89.6	120.0			100.0	105.7
1862.....	112.5	98.5	84.3	106.7	89.6	160.0			100.0	109.2
1863.....	125.0	113.3	100.0	133.3	115.5	240.0	122.9	41.8	166.7	103.2
1864.....	150.0	114.2	125.0	186.7	143.3	280.0	118.2	76.6	233.3	117.8
1865.....	150.0	135.2	150.0	186.7	164.2	320.0	133.9	73.2	233.3	142.9
1866.....	200.0	153.8	138.5	195.5	179.1	280.0	133.9	62.8	233.3	149.2
1867.....	250.0	218.9	144.8	205.6	209.0	280.0	152.7	83.7	200.0	158.7
1868.....	225.0	216.9	159.8	205.6	179.1	280.0	121.4	83.7	200.0	171.4
1869.....	250.0	216.9	162.5	205.6	195.5	280.0	115.2	62.8	200.0	174.6
1870.....	250.0	168.9	162.5	203.5	186.0	280.0	126.5	83.7	200.0	169.2
1871.....	200.0	170.1	162.5	203.5	182.4	280.0	132.7		200.0	182.5
1872.....	200.0	168.9	159.3	203.5	189.0	280.0	135.7		205.3	174.6
1873.....	200.0	172.5	162.5	202.7	194.9	240.0	127.1	100.8	218.7	178.7
1874.....	175.0	168.9	163.8	200.0	205.7	240.0	136.0	76.6	266.7	185.1
1875.....	150.0	170.1	163.8	200.0	184.2	240.0	128.3	97.5	218.0	174.6
1876.....	125.0	137.0	158.3	186.7	184.2	240.0	126.5	102.9	196.7	174.6
1877.....	125.0	114.5	145.8	160.0	189.0	200.0	121.4	62.8	156.0	158.7
1878.....	125.0	114.5	131.3	160.0	189.0	200.0	126.5	62.8	166.7	150.8
1879.....	125.0	99.4	131.3	160.0	149.3	200.0	114.6	76.6	166.7	150.8
1880.....	150.0	107.4	121.8	160.0	144.2	200.0	128.3	69.8	166.7	142.9
1881.....	225.0	109.8	125.0	186.7	158.2	240.0	121.4	83.7	200.0	156.2
1882.....	200.0	135.2	125.0	186.7	175.2	240.0	122.9	83.7	200.0	158.7
1883.....	200.0	174.9	131.3	186.7	169.3	260.0	127.4	100.8	196.0	158.7
1884.....	200.0	207.1	131.3	186.7	169.3	280.0	128.0		200.0	158.7
1885.....	200.0	207.1	131.3	186.7	174.0	280.0	130.7	83.7	200.0	158.7
1886.....	200.0	207.1	137.5	186.7	175.2	280.0	124.4	94.1	193.3	150.8
1887.....	200.0	207.1	137.5	186.7	189.0	280.0	109.5	94.1	211.3	155.9
1888.....	200.0	207.1	137.5	186.7	194.0	280.0	124.4	104.6	213.3	155.9
1889.....	200.0	207.1	137.5	186.7	209.0	280.0	126.5	94.1		155.9
1890.....	225.0	207.1	137.5	186.7	209.0	280.0	117.3	104.6	211.3	155.9
1891.....	200.0	189.3	125.0	186.7	209.0	280.0	117.0		180.0	169.2

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

CARRIAGES AND WAGONS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	23. Black- smiths.	33. Black- smiths' helpers.	33. Painters.	33. Wheel- wrights.
1840.....	100.0	100.0	100.0	100.0
1841.....	100.0	100.0	100.0	100.0
1842.....	100.0	100.0	100.0	100.0
1843.....	100.0	100.0	100.0	100.0
1844.....	100.0	100.0	100.0	100.0
1845.....	100.0	100.0	100.0	100.0
1846.....	100.0	100.0	100.0	100.0
1847.....	100.0	100.0	100.0	100.0
1848.....	100.0	100.0	100.0	100.0
1849.....	100.0	100.0	100.0	100.0
1850.....	100.0	100.0	100.0	100.0
1851.....	100.0	100.0	100.0	100.0
1852.....	100.0	100.0	100.0	100.0
1853.....	100.0	100.0	100.0	100.0
1854.....	100.0	100.0	100.0	100.0
1855.....	100.0	100.0	100.0	100.0
1856.....	100.0	100.0	100.0	100.0
1857.....	100.0	100.0	100.0	100.0
1858.....	100.0	100.0	100.0	100.0
1859.....	100.0	100.0	100.0	100.0
1860.....	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	100.0	100.0
1862.....	200.0	179.6	140.0	160.0
1863.....	200.0	179.6	140.0	160.0
1864.....	200.0	179.6	140.0	160.0
1865.....	200.0	179.6	140.0	160.0
1866.....	200.0	179.6	140.0	160.0
1867.....	200.0	179.6	140.0	160.0
1868.....	200.0	179.6	140.0	160.0
1869.....	200.0	179.6	140.0	200.0
1870.....	200.0	179.6	140.0	200.0
1871.....	200.0	179.6	140.0	200.0
1872.....	200.0	179.6	140.0	200.0
1873.....	200.0	179.6	140.0	200.0
1874.....	200.0	179.6	140.0	200.0
1875.....	200.0	179.6	140.0	200.0
1876.....	200.0	179.6	140.0	200.0
1877.....	200.0	179.6	140.0	200.0
1878.....	200.0	179.6	140.0	200.0
1879.....	200.0	179.6	140.0	200.0
1880.....	200.0	209.6	200.0	200.0
1881.....	200.0	209.6	200.0	200.0
1882.....	200.0	209.6	200.0	200.0
1883.....	200.0	209.6	200.0	200.0
1884.....	200.0	209.6	200.0	200.0
1885.....	200.0	209.6	200.0	200.0
1886.....	200.0	209.6	200.0	200.0
1887.....	200.0	209.6	200.0	200.0
1888.....	200.0	209.6	200.0	200.0
1889.....	200.0	209.6	200.0	200.0
1890.....	200.0	209.6	200.0	200.0
1891.....	200.0	209.6	200.0	200.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

CITY PUBLIC WORKS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	35. Black- smiths.	35. Black- smiths, helpers.	35. Blast- ers.	35. Brick- layers.	35. Carpen- ters.	36. Carpen- ters.	36. Engi- neers.	36. Engi- neers, assist- ant.	36. Fire- men.	35. Fore- men, la- borers.	34. Fore- men, la- borers.	35. Gar- deners.
1840...												
1841...												
1842...												
1843...												
1844...												
1845...												
1846...												
1847...												
1848...												
1849...												
1850...												
1851...												
1852...												
1853...												
1854...						87.5	90.1		120.0			
1855...						87.5	96.0		104.0		118.3	
1856...						87.5	94.1		98.8		104.9	
1857...	111.1	80.0			116.3	87.5	94.1		99.6	100.0	85.7	115.4
1858...	97.2	80.0	100.0	87.5	87.2		98.1	100.0	99.6	87.5	120.0	100.0
1859...	98.9	96.0	112.0	100.0	101.7		98.1	100.0	100.0	100.0	100.0	107.7
1860...	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861...	97.5	83.6		90.0	96.8	100.0	98.8	87.6	102.8	100.0	121.4	88.5
1862...	99.7	91.2		87.5	99.1	100.0	98.8	87.6	102.8	100.0	114.3	84.6
1863...	111.1	108.0		110.0	116.3		93.6	92.0	98.8	110.0	121.4	107.7
1864...	152.8	152.0	152.0	150.0	158.4		95.8	92.0	98.8	150.0	157.1	146.2
1865...	180.6	160.0	160.0	150.0	187.5	137.5	119.3	131.6	131.6	150.0	119.1	153.8
1866...	194.4	160.0		175.0	203.5	137.5	119.3	131.6	131.6	150.0	128.6	153.8
1867...	194.4	160.0		250.0	232.6	137.5	116.5	131.6	131.6	175.0	128.6	161.5
1868...	194.4	160.0		225.0	232.6	112.5	119.1	131.6	131.6	200.0	150.0	180.8
1869...	194.4	160.0	200.0		232.6		121.4	131.6	131.6	200.0	140.6	180.8
1870...	194.4	160.0	195.2	212.0	232.6		121.4	131.6	131.6	200.0	139.7	184.6
1871...	194.4	160.0	195.2	212.0	232.6		121.4	131.6	131.6	225.0	128.6	184.6
1872...	194.4	160.0	195.2	212.0	232.6		121.4	164.4	164.4	225.0	162.0	184.6
1873...	194.4	160.0	195.2	212.0	232.6	150.0	123.8	164.4	164.4	225.0	134.6	192.3
1874...	194.4	160.0	195.2	212.0	232.6	150.0	125.9	164.4	164.4	225.0	166.6	192.3
1875...	194.4	160.0	195.2	212.0	232.6		125.4	164.4	164.4	225.0	136.6	192.3
1876...	166.7	160.0	195.2	175.0	174.4		125.4	164.4	164.4	225.0	150.0	173.1
1877...	166.7	144.4	195.2	150.0	159.9		125.4	164.4	164.4	200.0	125.7	153.8
1878...	152.8	144.4	195.2	150.0	145.3		111.3	148.0	148.0	175.0	105.7	138.5
1879...	138.9	144.4	195.2	125.0	145.3		111.3	148.0	148.0	150.0	108.3	138.5
1880...	138.9	144.4	195.2	125.0	145.3		111.3	148.0	148.0	150.0	149.7	153.8
1881...	138.9	144.4	195.2	125.0	145.3		114.6	148.0	148.0	175.0	128.6	153.8
1882...	138.9	153.6	195.2	150.0	174.4	119.8	114.6	148.0	148.0	175.0	150.3	153.8
1883...	166.7	160.0	195.2	150.0	174.4		119.8	164.4	160.8	175.0	159.7	153.8
1884...	166.7	160.0	195.2	175.0	174.4		121.4	171.6	164.4	175.0	146.0	153.8
1885...	166.7	160.0	195.2	175.0	174.4		125.2	177.2	164.4	175.0	138.3	153.8
1886...	166.7	160.0	195.2	175.0	203.5		124.7	172.4	164.4	175.0	139.1	153.8
1887...	166.7	160.0	195.2	175.0	203.5	150.0	128.0	175.6	164.4	175.0	139.4	153.8
1888...	166.7	160.0	195.2	175.0	174.4	150.0	128.0	175.6	164.4	200.0	142.9	153.8
1889...	166.7	160.0	195.2	175.0	174.4	150.0	129.9	175.6	164.4	200.0	139.4	153.8
1890...	166.7	160.0	195.2	175.0	174.4	150.0	129.9	175.6	164.4	200.0	140.3	153.8
1891...	166.7	160.0	195.2	175.0	174.4	150.0	129.9	178.0	165.2	200.0	142.9	153.8

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

CITY PUBLIC WORKS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	34. Labor- ers.	35. Labor- ers.	36. Labor- ers.	37. Labor- ers.	36. Machin- ists.	35. Ma- sons.	34. Ma- sons.	36. Pattern- makers.	35. Quarry- men.	35. Stone- cutters.	36. Watch- men.
1840											
1841											
1842											
1843											
1844											
1845											
1846											
1847											
1848											
1849											
1850											
1851											
1852											
1853											
1854			96.2								116.7
1855	99.5		99.6								116.7
1856	99.5		100.0								116.7
1857	99.5	125.0	101.2		100.0		100.0				116.7
1858	91.0	100.0	103.8				100.0				108.3
1859	101.0	110.0	100.0			100.0	100.0			103.3	116.7
1860	100.0	100.0	100.0	100.0	100.0	100.0			100.0	100.0	100.0
1861	100.5	90.0	98.8	100.0	121.0	90.0		100.0		112.5	89.0
1862	102.0	100.0	98.8	100.0	121.0	87.5		100.0		87.5	94.3
1863	148.3	125.0	98.5	120.0	100.0	110.0				112.5	73.0
1864	132.8	180.0	115.4	140.0	133.3	150.0	100.0		172.7	150.0	73.0
1865	155.7	190.0	134.6	140.0	183.3	150.0		150.0	181.8	150.0	100.3
1866	159.2	190.0	134.6	140.0	177.7	175.0		150.0		175.0	100.3
1867	158.2	200.0	134.6	140.0	181.7	200.0		166.7		200.0	100.3
1868	164.2	200.0	136.5	140.0	180.0	225.0		166.7	204.5	212.5	100.3
1869	175.1	200.0	136.5	140.0	189.3	212.5	140.0	183.3	204.5	225.0	100.3
1870	176.6	220.0	137.3	140.0	181.7	212.0	133.3	183.3	203.6	212.0	100.3
1871	174.1	200.0	136.2		183.3	212.0	150.0	183.3	203.6	212.0	109.7
1872	199.5	200.0	141.9		186.0	212.0	150.0	200.0	203.6	212.0	109.7
1873	180.1	200.0	140.0	120.0	186.3	212.0	150.0	200.0	203.6	212.0	130.3
1874	175.6	200.0	142.3	120.0	192.3	212.0	150.0	200.0	203.6	212.0	137.0
1875	152.2	200.0	139.6	120.0	191.7	212.0	163.3	200.0	203.6	212.0	136.3
1876	153.7	200.0	134.6	120.0	190.3	175.0	133.3	200.0	203.6	175.0	136.7
1877	102.0	160.0	134.6	100.0	192.3	150.0		200.0	181.8	150.0	136.3
1878	101.5	160.0	115.4	100.0	158.7	150.0		166.7		150.0	122.3
1879	100.5	160.0	115.4	100.0	159.7	125.0		166.7	160.0	150.0	122.3
1880	124.4	160.0	117.7	100.0	161.7	125.0	116.7	166.7	160.0	150.0	122.0
1881	139.3	160.0	125.0	100.0	193.7	125.0	116.7	191.7	160.0	150.0	122.3
1882	151.2	176.0	124.2	120.0	194.3	150.0	133.3	191.7	160.0	150.0	122.3
1883	152.2	176.0	138.5	120.0	196.7	150.0	133.3	191.7	181.8	150.0	115.7
1884	151.7	176.0	135.0	120.0	193.3	175.0	133.3	191.7	181.8	175.0	126.7
1885	152.2	176.0	142.2	120.0	200.0	175.0	133.3	194.3	181.8	175.0	126.7
1886	151.7	176.0	139.6	120.0	198.0	175.0	133.3	191.7	181.8	175.0	126.0
1887	151.7	176.0	145.8	120.0	197.3	175.0	133.3	200.0	181.8	175.0	124.3
1888	170.6	176.0	145.8	120.0	197.3	175.0		200.0	181.8	175.0	124.3
1889	153.2	176.0	145.8	120.0	197.3	175.0	158.3	200.0	181.8	175.0	124.3
1890	152.2	176.0	148.8	120.0	197.3	175.0	150.0	200.0	181.8	175.0	129.7
1891	151.7	176.0	148.5	120.0	195.7	175.0	141.7	200.0	181.8	175.0	129.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	38. Back boys	40. Back hands.	38. Balers.	40. Band boys.	38. Beam car- riers.	38. Belt- men.	38. Black- smiths.	38. Bobbin men.	38. Boiler- men.	38. Boiler- men's helpers.	38. Card grind- ers.
1840											
1841		101.3									
1842		96.3									
1843		97.5									
1844		83.8									
1845		90.0									
1846		66.3									
1847		105.0									
1848											
1849											
1850											
1851	84.9				89.8				57.1		79.5
1852	81.1	70.0			84.4				57.1		85.4
1853	88.7	75.0			94.6	94.7	60.3		57.1		91.7
1854	88.7	75.0			94.6	94.7	60.3		57.1		91.7
1855	96.2		100.0		99.4	88.7	91.6		71.4		101.0
1856	84.9	113.8	83.0	132.3	99.4	88.7	91.6		78.6		97.1
1857	83.7	117.5	83.0	126.6	99.4	88.7	91.6		76.3		97.1
1858	83.7		92.0		99.4	94.7	96.4		90.3		93.2
1859	100.0	100.0	100.0	84.8	97.0	94.7	96.4		91.4	100.0	95.6
1860	100.0		100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0
1861	86.8		83.0	93.0	83.2	100.0	97.5	100.0	85.7	100.0	90.2
1862	73.6		83.0	126.6	83.2	111.3	105.6	106.0	95.4	100.0	110.7
1863	135.8		108.0		129.3	111.3	105.6	123.7	100.0	115.7	110.7
1864	177.4	100.0	133.0		149.7	116.7	116.5	159.0	97.7	115.7	119.5
1865	171.7	125.0	133.0	63.3	162.3	122.0	150.6	153.4	107.1	129.6	140.0
1866	186.8	137.5	167.0	126.6	174.9	150.0	158.4	144.2	114.3	138.9	141.0
1867	207.5	131.3	167.0	94.3	167.1	150.0	158.4	146.6	114.3	138.9	154.6
1868	203.8	125.0	154.0	105.1	157.5	150.0	161.2	144.2	128.6	138.9	172.7
1869	201.9	145.0	163.0	94.9	157.5	150.0	161.2	176.7	114.3	146.3	182.0
1870	203.8		150.0	100.0	159.9	183.3	167.3	167.8	104.6	146.3	177.6
1871	235.8		167.0	105.1	159.9	200.0	161.2	176.7	104.6	146.3	146.3
1872	235.8		167.0	105.1	159.9	200.0	173.7	185.5	142.9	146.3	227.8
1873	235.8		167.0	105.1	152.7	183.3	164.8	176.7	114.3	142.6	170.7
1874	211.3		146.0	50.6	141.9	178.0	148.9	159.0	90.6	131.5	150.2
1875	190.6	100.0	122.0	63.3	149.7	146.7	130.4	132.9	91.4	105.1	126.8
1876	175.5	87.5	110.0	77.8	105.4	132.0	115.1	114.5	63.1	95.4	120.5
1877	175.5	96.3	110.0	88.6	123.4	132.0	115.1	114.5	72.0	95.4	124.4
1878	171.7	116.3	104.0	94.9	99.4	123.3	131.3		64.6	89.8	111.2
1879	141.5	116.3	104.0	82.9	105.4	133.3	131.3		75.1	106.5	120.5
1880	166.0	103.8	121.0	83.5	116.2	155.3	153.6		80.3	106.5	135.6
1881	166.0	108.8	121.0	93.7	119.8	155.3	153.6		80.3	106.5	124.9
1882	166.0	116.3	121.0	93.7	119.8	155.3	153.6		80.3	106.5	124.9
1883	150.9	107.5	121.0	96.2	119.8	143.3	153.6		87.7	106.5	135.1
1884	147.2	102.5	110.0	98.4	119.8	143.3	153.6		87.7	106.5	137.1
1885	184.9	103.8	110.0	100.0	107.8	129.3	150.8		87.7	106.5	139.0
1886	198.1	125.0	105.0	102.5	116.2	140.0	125.7		82.9		146.3
1887	200.0	133.8	105.0	88.6	116.2	140.0	125.7		82.9		144.4
1888	215.1	143.8	105.0		122.2	140.0	125.7		82.9		150.2
1889	213.2	137.5	105.0	85.4	122.2	140.0	125.7		82.9		150.2
1890	205.7	145.0	105.0	99.4	122.2	140.0	125.7		82.9		152.2
1891	201.9	143.8	105.0	108.9	122.2	140.0	153.6		88.6		187.8

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	39. Card grind- ers.	40. Card grind- ers.	41. Card grind- ers.	38. Card strip- pers.	39. Card strip- pers.	40. Card strip- pers.	41. Card strip- pers.	38. Carpen- ters.	39. Carpen- ters.	40. Carpen- ters.	41. Carpen- ters.
1840		108.4				88.1				86.9	
1841						66.2					
1842		111.4				93.4				92.3	
1843	110.2	113.9			97.6	89.4			79.2	90.9	
1844	100.6	100.6			97.6	90.1			72.9	84.2	
1845	106.0	99.4			97.6	60.9			76.4	82.9	
1846	101.8	101.8			102.4				81.0	84.6	
1847	98.8	110.2			102.4	104.0			79.9	86.6	
1848	109.6	108.4			102.4	106.0			87.7	89.9	
1849	104.8	101.8			102.4	101.3			82.0	91.3	
1850	107.8	98.2			102.4	102.0			87.0	88.3	
1851	103.0	108.4		76.8	102.4	102.6			90.5	95.3	
1852	109.6	108.4		81.7	102.4	101.3			87.7	93.0	
1853	100.0	100.0		97.9	96.0	106.0	109.9	77.0	97.2	92.6	100.0
1854	110.2	100.0	89.8	97.9	102.4	106.0	109.9	77.0	93.0	94.6	100.0
1855	103.0	96.4	109.6	100.0	102.4	106.0	109.9	95.7		104.7	116.7
1856		101.2	109.6	100.0	96.0	106.0	109.9	95.7		98.3	116.7
1857		105.4	109.6	100.0		106.0	117.4	95.7		103.7	100.0
1858		105.4	100.0	94.4		102.0	87.6	95.4		109.1	100.0
1859	100.6	100.6	100.0	100.0	96.0	102.6	102.5	101.0	96.8	101.7	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	110.2	105.4	119.8	95.8	111.2	99.3	109.9	102.3	97.5	104.0	100.0
1862	113.9	105.4	119.8	112.7	112.0	99.3	109.9	113.5	98.2	105.4	100.0
1863	110.2	106.0		140.8	96.0	100.0		113.5	90.5	103.0	
1864	150.6	180.7		162.0	120.0	165.6		131.6	106.3	128.2	
1865	160.2	178.9		190.1	179.2	180.1		168.1	143.0	127.9	
1866	201.8	189.2	209.6	190.1	179.2	180.1	175.2	164.5	146.8	141.3	200.0
1867	191.0	194.0	224.6	190.1	179.2	185.4	186.0	170.1	143.7	153.0	216.7
1868	169.9	190.4	224.6	181.7	160.0	178.1	206.6	170.1	151.4	148.0	216.7
1869	190.4	190.4	224.6	181.0	160.0	180.1	206.6	170.1	148.6	153.7	200.0
1870	173.5	188.6	179.6	164.1	146.4	180.8	206.6	170.1	148.2	146.6	200.0
1871	180.7	197.6	224.6	190.8	159.2	189.4	206.6	164.5	156.0	153.0	183.3
1872	177.7	203.0	224.6	188.0	140.0	190.1	206.6	164.5	158.5	156.7	183.3
1873	177.7	187.3	224.6	187.3	159.2	179.5	206.6	175.3	159.2	152.0	183.3
1874	171.1	168.7	201.8	171.1	162.4	167.5	200.0	156.3	158.5	142.6	150.0
1875	160.2	166.3	201.8	133.8	140.0	160.9	179.3	137.2	154.9	143.0	158.3
1876	158.4	165.7	159.9	123.9	128.0	157.6	192.6	119.4	156.7	133.2	140.0
1877	150.6	168.7	159.9	103.5	112.0	151.7	195.9	109.5	138.4	128.2	125.0
1878	150.6	169.3	159.9	109.2	112.0	148.3	195.9	116.8	141.9	126.2	125.0
1879	168.7	168.7	159.9	119.7	136.0	125.8	195.9	130.3	121.1	124.5	125.0
1880	168.7	168.7	159.9	133.8	136.0	124.5	195.9	127.6	122.2	124.2	125.0
1881	171.1	168.7	164.7	133.8	152.0	126.5	213.2	127.6	137.3	123.8	125.0
1882	182.5	168.7	169.5	133.8	160.0	117.9	213.2	127.6	140.1	121.8	122.3
1883	182.5	168.7	169.5	133.8	160.0	123.8	186.0	144.1	134.2	128.5	122.3
1884	177.7	168.7	169.5	133.8	152.0	125.8	186.0	144.1	133.5	129.9	122.3
1885	177.7	183.7	169.5	133.8	152.0	132.5	165.3	130.9	131.7	132.2	111.1
1886	172.9	183.7	169.5	157.0	160.0	132.5	165.3	124.7	133.5	131.9	111.1
1887	168.7	183.7	169.5	217.6	160.0	132.5	165.3	124.7	132.7	130.2	111.1
1888	186.7	183.7	169.5	217.6	160.0	125.8	200.0	124.7	128.2	132.9	111.1
1889	177.7	183.7	179.6	217.6	160.0	129.1	200.0	124.7	129.6	133.2	111.1
1890	177.7	183.7	179.6	217.6	160.0	135.1	200.0	124.7	135.2	135.2	111.1
1891	176.5	183.7	179.6	184.5	160.0	135.1	200.0	124.7	139.1	130.2	111.1

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	40. Cloth- room hands.	38. Doffers.	40. Doffers.	41. Doffers.	38. Doubler- tenders	39. Draw- ers-in.	41. Draw- ers-in.	39. Draw- ing hands.	40. Draw- ing hands.	41. Draw- ing- frame tenders	40. Dress- ers.
1840	68.4	.....	.....	.....	.....	.....	.....	.....	83.8	.....	.....
1841 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	68.4	.....	.....	.....	.....	.....	.....	.....	86.9	.....	.....
1843	69.2	.....	.....	.....	.....	.....	.....	100.0	82.8	.....	55.5
1844	65.8	.....	.....	.....	.....	.....	.....	100.0	82.8	.....	54.5
1845	67.5	.....	.....	.....	.....	96.8	.....	100.0	82.8	.....	38.8
1846	74.4	.....	.....	.....	.....	100.0	.....	100.0	81.8	.....	.....
1847	74.4	.....	.....	.....	.....	93.7	.....	100.0	81.8	.....	34.9
1848	82.1	.....	.....	.....	.....	96.8	.....	100.0	85.9	.....	55.5
1849	82.1	.....	.....	.....	.....	93.7	.....	100.0	90.9	.....	.....
1850	77.8	.....	.....	.....	.....	93.7	.....	100.0	82.8	.....	.....
1851	82.1	74.6	.....	.....	60.2	96.8	.....	100.0	82.8	.....	.....
1852	80.3	76.2	.....	.....	68.8	85.3	.....	100.0	90.9	.....	.....
1853	81.2	71.4	.....	77.2	90.6	93.7	80.6	98.8	87.9	100.0	.....
1854	80.3	71.4	.....	108.7	90.6	98.9	129.0	102.4	87.9	100.0	.....
1855	81.2	81.0	.....	101.1	65.6	105.3	112.9	100.0	84.8	100.0	.....
1856	98.3	79.4	103.3	117.4	62.5	.....	104.8	.....	84.8	100.0	.....
1857	88.0	81.0	106.6	135.9	62.5	.....	104.8	.....	88.9	110.8	.....
1858	94.0	85.7	106.6	84.8	86.7	.....	96.8	.....	102.0	90.4	82.8
1859	91.5	100.0	90.2	108.7	91.4	96.8	104.8	100.0	99.0	104.8	85.6
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	91.5	92.1	103.3	100.0	87.5	84.2	96.8	119.0	122.2	100.0	104.3
1862	92.3	96.8	104.9	116.3	110.2	113.7	80.6	119.0	105.1	100.0	72.7
1863	99.1	120.6	96.7	.....	117.2	113.7	.....	95.2	92.9	.....	61.7
1864	103.4	130.2	123.0	.....	113.3	123.2	.....	119.0	120.2	.....	101.4
1865	135.0	187.3	131.1	.....	197.7	141.1	.....	119.0	114.1	.....	87.6
1866	142.7	177.8	163.9	144.6	197.7	189.5	117.4	159.5	143.4	141.0	113.9
1867	147.0	219.0	188.5	167.4	197.7	212.6	193.5	159.5	139.4	160.2	149.3
1868	149.6	228.6	198.4	167.4	185.9	202.1	201.6	159.5	138.4	160.2	156.0
1869	151.3	219.0	198.4	167.4	138.3	206.3	209.7	159.5	133.3	160.2	163.2
1870	149.6	215.9	178.7	167.4	138.3	192.6	193.5	159.5	144.4	180.7	182.3
1871	153.0	214.3	163.9	181.5	123.4	172.6	177.4	159.5	177.8	180.7	197.6
1872	182.9	285.7	163.9	181.5	123.4	186.3	193.5	159.5	174.7	171.1	183.3
1873	162.4	285.7	159.0	181.5	123.4	192.6	209.7	148.8	166.7	180.7	168.9
1874	143.6	258.7	149.2	190.2	123.4	195.8	174.2	147.6	142.4	160.2	154.1
1875	143.6	196.8	126.2	181.5	93.0	203.2	193.5	148.8	133.3	160.2	134.0
1876	129.9	169.8	147.5	148.9	84.4	184.2	169.4	146.4	130.3	141.0	108.1
1877	123.1	165.1	152.5	144.6	87.5	184.2	129.0	126.2	122.2	130.1	106.7
1878	123.9	165.1	150.8	144.6	82.8	161.1	137.1	131.0	123.2	130.1	101.9
1879	117.1	157.1	113.1	148.9	82.8	181.1	138.7	114.3	126.3	130.1	90.4
1880	125.6	177.8	116.4	163.0	96.9	201.1	145.2	115.5	136.4	160.2	91.4
1881	125.6	177.8	119.7	158.7	96.9	213.7	169.4	110.7	135.4	175.9	106.7
1882	127.4	177.8	121.3	163.0	96.9	204.2	188.7	121.4	132.3	175.9	105.7
1883	127.4	160.3	113.1	154.3	87.5	196.8	145.2	111.9	159.6	160.2	126.8
1884	127.4	160.3	124.6	144.6	87.5	194.7	151.6	120.2	151.5	160.2	126.3
1885	127.4	173.0	141.0	131.5	87.5	200.0	129.0	119.0	150.5	145.8	121.5
1886	130.8	182.5	163.9	131.5	98.4	224.2	135.5	175.0	179.8	145.8	130.1
1887	140.2	187.3	223.0	163.0	98.4	196.8	129.0	133.3	178.8	145.8	132.1
1888	140.2	225.4	250.8	163.0	98.4	200.0	129.0	133.3	157.6	145.8	130.6
1889	147.9	246.0	218.0	181.5	98.4	206.3	137.1	134.5	174.7	160.2	175.1
1890	148.7	249.2	229.5	181.5	98.4	208.4	156.5	133.3	199.0	160.2	186.1
1891	152.1	265.1	218.0	194.6	156.3	197.9	150.0	133.3	213.1	171.1	194.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment numbers as tabulated in Table XII.]

Year.	40. Engi- neers.	38. Entry- men.	38. Filling carri- ers.	40. Fire- men.	41. Fire- men.	39. Fore- men, carpen- ters.	39. Fore- men, machin- ists.	39. Fore- men, yard.	40. Fore- men, yard.	40. Har- ness hands.	40. Labor- ers.
1840	66.7	.....	.....	88.3	.....	.....	.....	.....	.....	.....	81.4
1841	66.7	.....	.....	88.3	.....	.....	.....	.....	.....	.....	.....
1842	66.7	.....	.....	88.3	.....	.....	.....	.....	.....	.....	81.9
1843	66.7	.....	.....	90.1	.....	.....	.....	.....	.....	.....	87.4
1844	66.7	.....	.....	90.1	.....	.....	.....	.....	.....	88.5	87.4
1845	75.0	.....	.....	90.1	.....	.....	.....	.....	.....	87.4	87.4
1846	75.0	.....	.....	93.6	.....	.....	.....	.....	.....	92.0	85.9
1847	75.0	.....	.....	95.4	.....	.....	.....	.....	.....	88.5	95.0
1848	75.0	.....	.....	91.9	.....	.....	.....	81.3	.....	98.9	104.0
1849	75.0	.....	.....	92.9	.....	.....	.....	81.3	.....	117.2	88.9
1850	75.0	.....	.....	95.4	.....	.....	.....	81.3	.....	89.7	94.5
1851	75.0	.....	25.3	95.4	.....	.....	.....	81.3	.....	96.6	93.5
1852	75.0	.....	36.1	97.2	.....	.....	.....	87.5	.....	88.5	95.5
1853	83.3	72.8	60.2	102.5	111.3	.....	.....	87.5	.....	93.1	95.0
1854	83.3	72.8	60.2	101.4	111.3	.....	.....	100.0	.....	96.6	97.5
1855	83.3	90.2	60.2	104.2	133.3	.....	.....	.....	.....	94.3	99.5
1856	83.3	90.2	60.2	104.2	133.3	.....	.....	.....	.....	.....	100.5
1857	91.7	90.2	80.7	92.9	133.3	.....	.....	.....	.....	.....	100.5
1858	91.7	92.4	100.0	95.8	100.0	.....	.....	.....	.....	.....	100.5
1859	91.7	92.4	80.7	99.3	100.0	94.3	100.0	87.5	.....	.....	102.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	81.5	80.7	97.9	100.0	106.9	100.0	100.0	116.7	114.9	103.0
1862	100.0	81.5	80.7	100.0	100.0	106.9	94.3	100.0	116.7	123.0	100.0
1863	100.0	108.7	110.8	104.6	.....	114.3	114.3	100.0	116.7	160.9	107.0
1864	91.7	135.9	141.0	103.5	.....	114.3	118.9	100.0	150.0	172.4	146.7
1865	95.8	135.9	155.4	107.1	.....	142.9	142.9	100.0	166.7	172.4	164.3
1866	95.8	163.0	155.4	112.0	266.7	171.4	171.4	125.0	156.7	194.3	176.4
1867	100.0	163.0	160.2	117.7	266.7	185.7	185.7	125.0	200.0	195.4	165.8
1868	100.0	154.3	150.6	116.3	233.3	200.0	228.6	125.0	200.0	188.5	174.9
1869	94.5	144.6	150.6	118.4	233.3	200.0	257.1	125.0	200.0	177.0	176.9
1870	91.7	135.9	134.9	117.7	233.3	200.0	257.1	125.0	200.0	189.7	177.9
1871	91.7	144.6	160.2	118.4	233.3	214.3	257.1	125.0	216.7	216.1	175.9
1872	97.2	144.6	160.2	114.1	233.3	214.3	257.1	125.0	216.7	221.8	178.4
1873	97.2	141.3	160.2	117.7	233.3	214.3	185.7	125.0	200.0	224.1	145.7
1874	94.5	135.9	141.0	123.7	200.0	200.0	200.0	125.0	200.0	219.5	127.6
1875	100.0	130.4	122.3	113.4	216.7	181.7	181.7	125.0	200.0	213.8	124.6
1876	100.0	108.7	106.0	113.8	188.7	200.0	200.0	125.0	200.0	214.9	122.1
1877	102.8	97.8	106.0	114.1	169.3	185.7	214.3	125.0	200.0	223.0	118.6
1878	102.8	56.5	100.0	113.1	169.3	185.7	214.3	125.0	200.0	223.0	116.1
1879	116.7	92.4	100.0	98.9	169.3	185.7	214.3	125.0	200.0	227.6	116.6
1880	116.7	107.6	116.9	98.9	169.3	171.4	171.4	125.0	208.0	227.6	116.6
1881	116.7	107.6	116.9	98.9	186.0	171.4	171.4	125.0	210.0	227.6	113.6
1882	124.0	107.6	116.9	98.2	166.7	185.7	185.7	125.0	210.0	224.1	116.6
1883	133.3	103.3	108.4	99.6	166.7	200.0	200.0	125.0	210.0	227.6	125.1
1884	133.3	103.3	108.4	105.3	166.7	200.0	200.0	125.0	210.0	241.4	127.6
1885	133.3	103.3	97.6	108.1	178.0	200.0	200.0	125.0	210.0	214.9	127.6
1886	141.7	108.7	116.9	107.1	178.0	200.0	185.7	112.5	210.0	258.6	127.6
1887	141.7	114.1	116.9	95.4	188.7	200.0	200.0	112.5	210.0	258.6	124.1
1888	141.7	114.1	122.9	103.5	188.7	200.0	200.0	112.5	210.0	258.6	126.1
1889	141.7	114.1	122.9	112.4	188.7	200.0	228.6	125.0	210.0	226.4	126.1
1890	141.7	114.1	122.9	106.4	188.7	200.0	228.6	125.0	210.0	209.2	125.1
1891	141.7	114.1	122.9	116.6	211.3	200.0	228.6	125.0	210.0	209.2	125.1

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	38. Lap car- riers.	41. Lapper feeders (boys).	41. Lapper tender.	38. Machin- ists.	39. Machin- ists.	40. Machin- ists.	41. Machin- ists.	40. Machin- ists' appren- tices.	38. Ma- sons.	38. Master machin- ists.
1840.....						82.2		77.7		
1841.....										
1842.....						81.3				
1843.....						81.0				
1844.....					72.5	71.1				
1845.....					84.1	79.0		97.1		
1846.....					102.5	84.1		92.0		
1847.....					96.7	81.3		94.3		
1848.....					99.3	86.7		103.4		
1849.....					97.5	86.4		100.6		
1850.....					98.9	87.8		106.3		
1851.....					97.8	85.6		98.9		
1852.....					96.4	85.3		107.4		
1853.....		74.6	66.7	86.9	110.5	87.8	90.1	98.3		
1854.....		86.6	88.7	86.9	122.8	91.8	105.1	112.6		
1855.....	94.4	100.0	88.7	96.8		98.3	120.1	120.0	84.5	90.1
1856.....	94.4	100.0	111.3	96.8		96.6	120.1	111.4	84.5	90.1
1857.....	94.4	100.0	111.3	96.8		100.8	105.1	124.6	90.2	90.1
1858.....	81.7	94.0	100.0	93.9		101.7	90.1	121.1	92.9	90.1
1859.....	100.0	100.0	100.0	98.4	91.7	98.9	97.6	114.3	97.0	90.1
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	91.5	111.9	90.0	97.4	103.6	105.1	100.0	114.3	99.3	100.0
1862.....	126.1	111.9	88.7	104.8	96.7	105.1	100.0	114.3	98.0	100.0
1863.....	117.6			109.3	109.1	103.1		124.0	114.9	105.7
1864.....	146.5			128.4	112.0	125.5		119.4	151.4	120.1
1865.....	144.4			143.8	144.9	126.3		128.6	191.6	120.1
1866.....	191.5	123.9	200.0	166.5	145.7	131.7	180.2	76.6	225.3	150.2
1867.....	190.8	123.9	216.7	176.4	158.0	144.8	191.9	114.3	219.6	150.2
1868.....	183.8	129.9	200.0	180.8	153.6	142.8	195.2	133.7	214.9	150.2
1869.....	181.7	149.3	216.7	180.8	158.0	142.8	195.2	133.7	237.8	150.2
1870.....	183.1	161.2	216.7	174.4	155.8	142.2	195.2	94.9	202.7	150.2
1871.....	190.8	161.2	216.7	174.4	161.2	144.2	195.2	114.3	168.9	165.2
1872.....	200.0	174.6	216.7	172.8	151.1	148.7	195.2	118.9	202.7	165.2
1873.....	205.6	174.6	250.0	176.7	147.8	140.8	195.2	128.6	202.7	187.7
1874.....	170.4	174.6	233.3	155.3	152.9	136.3	195.2	142.9	170.6	165.2
1875.....	144.4	174.6	233.3	150.5	137.3	129.2	165.2	142.9	143.6	150.2
1876.....	123.9	123.9	205.3	114.4	139.1	127.5	180.2	142.9	141.2	150.2
1877.....	126.8	117.9	186.0	120.4	132.6	123.5	142.0	142.9	139.9	150.2
1878.....		117.9	186.0	107.7	137.0	122.1	142.0	142.9	147.3	127.6
1879.....		117.9	186.0	107.7	123.9	117.8	142.0	104.6	145.9	127.6
1880.....	133.8	117.9	186.0	106.1	126.4	117.8	142.0	104.6	145.9	120.1
1881.....	133.8	137.3	200.0	106.1	127.9	122.7	156.2	115.4	145.9	120.1
1882.....	133.8	137.3	200.0	106.1	127.2	119.0	180.2	117.7	151.4	120.1
1883.....	128.2	149.3	178.0	116.3	135.5	118.4	180.2	121.7	135.1	120.1
1884.....	128.2	149.3	178.0	116.3	130.1	124.4	180.2	113.1	135.1	120.1
1885.....	128.2	129.9	161.3	109.3	123.2	127.2	180.2	127.4	135.1	108.1
1886.....	135.2	149.3	161.3	110.2	125.7	125.5	180.2	130.3	121.6	105.1
1887.....	135.2	149.3	161.3	111.2	130.8	122.7	180.2	127.4	131.1	105.1
1888.....	131.7	161.2	161.3	111.2	135.1	117.8	180.2	125.7	131.1	105.1
1889.....	131.7	198.5	188.7	111.2	143.1	119.8	180.2	131.4	131.1	105.1
1890.....	131.7	198.5	188.7	111.2	138.8	124.1	180.2	137.1	131.1	105.1
1891.....	145.8	198.5	188.7	108.0	135.1	115.6	180.2	134.9	131.1	90.1

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	40. Master machin- ists.	38. Oilers.	38. Over- seers, carding depart- ment.	39. Over- seers, carding depart- ment.	40. Over- seers, carding depart- ment.	41. Over- seers, carding depart- ment.	38. Over- seers, cloth room.	39. Over- seers, cloth room.	40. Over- seers, cloth room.	38. Over- seers, dress- ing depart- ment.
1840.....	100.0				80.0				70.4	
1841.....										
1842.....	100.0				80.0					
1843.....	100.0			100.0	80.0			66.7	70.4	
1844.....	100.0			100.0	80.0			77.8	70.4	
1845.....	100.0			100.0	80.0			77.8	70.4	
1846.....	100.0			100.0	80.0			88.9	70.4	
1847.....	100.0			100.0	80.0			88.9	88.0	
1848.....	100.0			100.0	80.0			88.9	88.0	
1849.....	100.0			100.0	80.0			88.9	88.0	
1850.....	100.0			100.0	80.0			88.9		
1851.....	100.0	50.0	75.0	100.0	80.0			88.9		55.7
1852.....	100.0	64.3	75.0	100.0	80.0			111.1		55.7
1853.....	100.0	95.2	83.3	75.0		114.3		111.1	88.0	61.0
1854.....	100.0	95.2	83.3	75.0		114.3		77.8	70.4	61.0
1855.....	100.0	95.2	100.0	87.5		114.3	100.0		88.0	83.3
1856.....	100.0	95.2	100.0		100.0	114.3	112.5		88.0	83.3
1857.....	100.0	95.2	100.0		100.0	85.7	112.5		96.5	100.0
1858.....	100.0	100.0	100.0		100.0	85.7	95.5		100.0	100.0
1859.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	112.5	107.1	83.3	100.0	100.0	100.0	83.5	100.0	105.6	83.3
1862.....	112.5	107.1	83.3	100.0	100.0	100.0	83.5	100.0	105.6	83.3
1863.....	112.5	107.1	100.0	100.0	100.0		100.0	77.8	105.6	100.0
1864.....	150.0	111.9	117.3	100.0	110.0		125.0	77.8	105.6	117.3
1865.....	150.0	131.0	117.3	112.5	110.0		112.5	100.0	123.2	116.7
1866.....	162.5	241.7	133.3	125.0	120.0	128.0	137.5	111.1	123.2	133.3
1867.....	162.5	225.0	141.7	125.0	120.0	142.9	137.5	122.2	123.2	133.3
1868.....	162.5	256.0	141.7	137.5	120.0	142.9	137.5	122.2	123.2	133.3
1869.....	162.5	263.1	150.0	137.5	120.0	142.9	137.5	133.3	123.2	100.0
1870.....	162.5	260.7	150.0	100.0	120.0	142.9	137.5	133.3	123.2	100.0
1871.....	162.5	301.2	148.3	104.0	120.0	142.9	129.0	133.3	193.7	100.0
1872.....	162.5	307.1	150.0	112.5	120.0	142.9	137.5	133.3	193.7	100.0
1873.....	162.5	303.6	150.0	125.0	120.0	142.9	137.5	133.3	211.3	100.0
1874.....	162.5	261.9	166.7	133.5	120.0	128.6	137.5	133.3	190.1	100.0
1875.....	175.0	239.3	158.3	136.3	120.0	135.7	137.5	121.1	211.3	100.0
1876.....	175.0	228.6	135.0	136.3	120.0	119.1	157.5	121.1	176.1	100.0
1877.....	175.0	209.5	150.0	136.3	120.0	107.1	125.0	121.1	176.1	116.7
1878.....	187.5	195.2	142.7	136.3	120.0	107.1	119.0	121.1	140.8	118.7
1879.....	200.0	188.1	142.7	162.5	160.0	107.1	119.0	133.3	140.8	133.3
1880.....	212.5	214.3	150.0	162.5	160.0	107.1	125.0	133.3	176.1	166.7
1881.....	225.0	214.3	150.0	162.5	160.0	128.6	125.0	133.3	176.1	166.7
1882.....	225.0	214.3	150.0	175.0	200.0	128.6	125.0	144.4	176.1	166.7
1883.....	225.0	203.6	150.0	162.5	200.0	128.6	125.0	144.4	193.7	176.7
1884.....	225.0	196.4	150.0	162.5	200.0	128.6	125.0	144.4	211.3	176.7
1885.....	225.0	196.4	150.0	162.5	200.0	115.7	125.0	138.9	211.3	176.7
1886.....	250.0	203.6	129.7	175.0	200.0	115.7	112.5	155.6	211.3	176.7
1887.....	250.0	203.6	129.7	200.0	200.0	128.6	121.5	155.6	246.5	176.7
1888.....	250.0	210.7	133.3	200.0	200.0	128.6	125.0	177.8	246.5	176.7
1889.....	250.0	216.7	133.3	250.0	200.0	128.6	125.0	177.8	246.5	176.7
1890.....	250.0	222.6	133.3	250.0	200.0	128.6	125.0	177.8	246.5	176.7
1891.....	250.0	272.6	133.3	250.0	200.0	128.6	150.0	177.8	281.7	176.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	39. Over- seers, dress- ing de- part- ment.	40. Over- seers, dress- ing de- part- ment.	38. Over- seers, spin- ning depart- ment.	39. Over- seers, spin- ning depart- ment.	40. Over- seers, spin- ning depart- ment.	41. Over- seers, spin- ning depart- ment.	41. Over- seers, spool- ing de- part- ment.	38. Over- seers, weav- ing de- part- ment.	39. Over- seers, weav- ing de- part- ment.	40. Over- seers, weav- ing de- part- ment.
1840.....		82.0								88.9
1841.....										
1842.....		82.0								88.9
1843.....	85.7	82.0		100.0					87.5	88.9
1844.....	114.3	91.3		100.0					87.5	88.9
1845.....	114.3	82.0		100.0					100.0	88.9
1846.....	114.3	82.0		100.0					100.0	88.9
1847.....	114.3	82.0		75.0					87.5	88.9
1848.....	114.3	95.6		100.0					100.0	88.9
1849.....	114.3	109.3		100.0					100.0	88.9
1850.....	114.3	109.3		100.0					100.0	88.9
1851.....	114.3	109.3	70.8	100.0				74.6	100.0	88.9
1852.....	114.3	109.3	70.8	100.0				80.6	100.0	88.9
1853.....	114.3	109.3	79.2	100.0		100.0		84.7	100.0	88.9
1854.....	114.3	109.3	79.2	112.5		107.7		84.7	100.0	88.9
1855.....	114.3	109.3	100.0	112.5		107.7		100.0	100.0	88.9
1856.....		109.3	100.0		100.0	107.7		100.0		100.0
1857.....		109.3	100.0		100.0	107.7		100.0		100.0
1858.....		136.6	100.0		100.0	92.3	76.9	100.0		94.4
1859.....	100.0	136.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	105.6
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	83.3	100.0	100.0	100.0	100.0	85.0	100.0	111.1
1862.....	100.0	136.6	83.3	100.0	100.0	97.5	100.0	85.0	100.0	111.1
1863.....	114.3	136.6	100.0	100.0	100.0			102.9	100.0	111.1
1864.....	114.3	150.3	112.8	100.0	120.0			129.1	100.0	98.2
1865.....	128.6	163.9	116.7	87.5	110.0			121.1	112.5	101.8
1866.....	142.9	163.9	133.3	125.0	120.0	138.5	138.5	157.4	137.5	111.1
1867.....	142.9	163.9	133.3	137.5	120.0	153.8	153.8	157.4	150.0	114.9
1868.....	142.9	163.9	133.3	137.5	120.0	153.8	153.8	157.4	150.0	100.0
1869.....	114.3	163.9	133.3	137.5	120.0	153.8	153.8	157.4	150.0	100.0
1870.....	114.3	163.9	133.3	100.0	120.0	153.8	153.8	163.4	162.5	111.1
1871.....	92.6	163.9	116.7	81.3	120.0	153.8	153.8	163.4	175.0	111.1
1872.....	114.3	163.9	116.7	85.5	120.0	153.8	153.8	151.3	187.5	111.1
1873.....	128.6	163.9	116.7	112.5	160.0	153.8	153.8	151.3	187.5	100.0
1874.....	200.0	163.9	125.0	131.3	120.0	138.5	138.5	154.2	175.0	100.0
1875.....	155.7	163.9	133.3	130.8	160.0	146.2	146.2	150.8	159.0	100.0
1876.....	142.9	163.9	125.0	162.5	220.0	128.3	128.3	193.7	159.0	88.9
1877.....	114.3	163.9	125.0	150.0	200.0	115.4	115.4	157.4	150.0	88.9
1878.....	114.3	163.9	130.0	150.0	200.0	115.4	115.4	184.0	150.0	88.9
1879.....	185.7	163.9	130.0	200.0	200.0	115.4	115.4	184.0	225.0	133.3
1880.....	185.7	163.9	137.7	200.0	200.0	115.4	115.4	166.1	200.0	133.3
1881.....	185.7	163.9	137.7	212.5	130.0	138.5	138.5	175.5	225.0	133.3
1882.....	185.7	163.9	137.7	187.5	130.0	169.2	138.5	175.5	237.5	133.3
1883.....	185.7	163.9	137.7	200.0	160.0	138.5	138.5	175.5	237.5	177.8
1884.....	185.7	163.9	137.7	200.0	160.0	138.5	138.5	96.9	237.5	177.8
1885.....	177.1	163.9	124.0	200.0	160.0	124.6	124.6	96.9	250.0	177.8
1886.....	185.7	163.9	135.8	205.0	160.0	138.5	124.6	174.3	275.0	177.8
1887.....	314.3	163.9	137.7	205.0	160.0	138.5	184.6	188.4	200.0	177.8
1888.....	314.3	163.9	151.7	205.0	160.0	138.5	184.6	193.7	200.0	177.8
1889.....	314.3	177.6	151.7	205.0	160.0	138.5	184.6	193.7	250.0	177.8
1890.....	228.6	177.6	151.7	256.3	160.0	138.5	184.6	193.7	250.0	222.2
1891.....	257.1	170.8	133.3	275.0	160.0	138.5	184.6	193.7	250.0	222.2

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	41. Over- seers, weaving depart- ment.	38. Paint- ers.	39. Paint- ers.	38. Pick- ers.	39. Pick- ers.	41. Pick- ers, (boys).	40. Pick- ing room hands.	41. Piecers, front (boys).	41. Piecers, back, (boys).	38. Roller cover- ers.
1840.....										
1841.....										
1842.....										
1843.....					93.2					
1844.....					92.2					
1845.....					89.1					
1846.....					87.1					
1847.....					87.8					
1848.....					87.8					
1849.....					87.8		113.6			
1850.....					89.8		102.3			
1851.....				76.8	87.8		102.3			
1852.....				78.9	91.8		96.6			116.7
1853.....	100.0			94.4	87.1	74.6	94.9	57.3	72.4	116.7
1854.....	128.6			94.4	94.6	74.6	95.5	70.9	86.2	116.7
1855.....	128.6	104.4		100.0	94.6	100.0	97.7	100.0	86.2	86.0
1856.....	126.6	104.4		100.0		100.0	101.1	100.0	86.2	86.0
1857.....	128.6	104.4		94.4		100.0	100.6	100.0	86.2	86.0
1858.....	114.3	97.8		100.0		94.0	100.0	95.7	86.2	89.0
1859.....	100.0	104.4	103.1	100.0	100.0	100.0	97.2	100.0	100.0	81.3
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	114.3	104.0	110.5	110.6	102.0	106.0	94.9	100.0	100.0	100.0
1862.....	85.7	107.4	111.4	109.2	102.0	100.0	94.3	57.3	100.0	111.3
1863.....		107.4	95.2	145.8	112.9		102.3			111.3
1864.....		113.2	96.5	181.0	136.1		151.1			122.0
1865.....		134.9	130.3	193.0	204.1		156.3			141.7
1866.....	157.1	156.3	131.6	200.0	171.4	137.3	174.4	128.2	143.1	151.3
1867.....	171.4	156.3	137.3	200.0	171.4	137.3	181.8	142.7	179.3	151.3
1868.....	171.4	159.2	152.2	187.3	141.5	129.9	163.1	142.7	186.2	166.7
1869.....	171.4	159.2	175.4	187.3	144.2	149.3	170.5	170.9	186.2	151.3
1870.....	171.4	159.2	158.3	170.4	161.2	149.3	168.2	142.7	186.2	159.7
1871.....	171.4	160.7	171.1	194.4	155.8	149.3	165.9	142.7	172.4	159.7
1872.....	171.4	160.7	166.2	200.0	161.2	149.3	173.9	170.9	201.7	161.0
1873.....	171.4	160.7	197.4	211.3	183.7	149.3	156.3	156.4	201.7	163.0
1874.....	171.4	142.3	180.7	170.4	160.5	149.3	144.3	142.7	215.5	146.3
1875.....	157.1	179.0	164.5	137.3	159.2	149.3	142.6	170.9	222.4	126.7
1876.....	157.1	137.1	182.9	133.8	139.5	123.9	139.8	128.2	172.4	101.7
1877.....	124.3	149.6	140.4	133.8	117.0	106.0	139.2	142.7	165.5	101.7
1878.....	124.3	91.9	140.4	125.4	125.9	106.0	140.3	142.7	165.5	103.3
1879.....	124.3	91.9	131.6	126.1	117.7	106.0	131.8	113.7	165.5	103.3
1880.....	114.3	128.7	134.6	147.2	117.7	106.0	131.8	88.8	179.3	100.0
1881.....	142.9	140.8	143.4	147.2	136.7	137.3	129.0	96.6	179.3	100.0
1882.....	142.9	140.8	160.1	147.2	144.9	137.3	134.1	113.7	172.4	100.0
1883.....	157.1	158.1	153.5	147.2	146.9	149.3	128.4	128.2	172.4	110.0
1884.....	157.1	158.1	121.5	147.2	145.6	149.3	134.7	128.2	172.4	110.0
1885.....	142.9	158.1	132.9	147.2	153.1	129.9	134.7	128.2	158.6	126.0
1886.....	142.9	136.0	127.2	140.8	151.7	149.3	125.0	128.2	158.6	136.0
1887.....	142.9	126.1	122.8	140.8	154.4	149.3	125.0	128.2	158.6	136.0
1888.....	142.9	126.1	111.4	140.8	141.5	149.3	123.9	128.2	158.6	136.0
1889.....	142.9	126.1	117.1	140.8	139.5		130.7	128.2	172.4	136.0
1890.....	142.9	126.1	128.9	140.8	144.2		126.7	142.7	172.4	136.0
1891.....	171.4	126.1	125.4	149.3	144.2		126.7	156.4	172.4	136.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	40. Room hands.	41. Roping boys.	40. Roving hands.	38. Scrub- bers.	38. Second hands.	39. Second hands.	40. Second hands.	41. Second hands.	39. Section hands.	40. Section hands.
1840.....							76.4			
1841.....										
1842.....							77.4			68.0
1843.....						94.5	78.5		78.3	68.0
1844.....						96.2	79.5		82.9	56.8
1845.....						93.2	84.2		85.5	64.0
1846.....						95.3	84.2		96.7	
1847.....						99.1	84.2		94.1	68.0
1848.....						100.9	84.2		96.7	84.8
1849.....						101.3	82.2		97.4	75.2
1850.....						101.3	84.2		97.4	66.4
1851.....					78.0	96.6	84.2		104.6	96.8
1852.....					79.5	91.5	84.2		103.9	
1853.....		49.3			83.5	103.4	87.5	100.9	113.8	
1854.....		55.2			83.5	111.1	84.8	102.3	110.5	
1855.....		80.6			108.4	113.2	87.5	98.2	102.0	
1856.....		94.0	176.3		108.1		89.9	99.5		102.8
1857.....		94.0	176.3		104.8		92.6	108.7		108.0
1858.....		74.6	176.3	100.0	97.1		99.0	89.4	103.9	104.4
1859.....	100.0	100.0		100.0	100.0	95.3	99.0	95.4	88.2	106.8
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	111.9	100.0	101.3	83.3	76.6	102.6	97.0	105.5	105.9	106.8
1862.....	111.9	123.9		83.3	78.4	101.3	97.3	110.1	109.2	106.4
1863.....	111.9			111.1	100.7	98.7	96.6		112.5	
1864.....	100.7		144.7	128.9	113.2	127.7	108.8		108.6	108.4
1865.....	114.2		173.7	148.9	139.2	106.4	114.5		108.6	126.8
1866.....	152.2	180.6	178.9	164.4	157.1	148.9	118.5	162.8	184.9	121.6
1867.....	169.4	180.6	200.0	164.4	159.7	159.6	126.3	181.2	176.3	129.2
1868.....	161.9	180.6	196.1	160.0	153.8	161.7	124.9	181.2	160.5	138.4
1869.....	148.5	198.5	196.1	152.2	152.7	155.7	125.6	181.2	153.9	144.0
1870.....	178.4	198.5	211.8	156.7	148.7	140.0	128.3	181.2	188.8	138.0
1871.....	162.7	198.5	231.6	168.9	157.5	148.9	128.6	181.2	193.4	
1872.....	159.0	198.5	252.6	168.9	162.6	141.7	128.3	176.6	198.0	125.2
1873.....	152.2	149.3	228.9	168.9	163.4	152.3	128.6	174.3	199.3	106.8
1874.....	154.5	149.3	205.3	145.6	151.6	155.3	126.6	145.9	191.4	120.0
1875.....	155.2	174.6	193.4	126.7	154.9	148.5	125.9	153.2	188.2	140.0
1876.....	159.7	198.5	182.9	123.3	127.5	160.0	128.3	139.4	190.8	148.0
1877.....	157.5	174.6	168.4	98.9	119.0	141.3	129.0	132.1	181.6	140.0
1878.....	159.7	174.6	167.1	115.6	115.0	135.3	130.3	135.3	183.6	140.0
1879.....	114.9	174.6	146.1	115.6	115.4	150.6	130.0	135.3	187.5	121.6
1880.....	114.9	174.6	148.7	120.0	127.5	151.5	132.3	113.3	187.5	122.0
1881.....	114.9	174.6	136.8	127.8	128.9	155.7	136.7	125.7	190.1	116.0
1882.....	117.2	186.6	148.7	127.8	128.9	162.6	137.7	129.4	205.9	125.2
1883.....	132.1	174.6	131.6	131.1	127.8	165.5	133.0	128.4	198.0	105.6
1884.....	134.3	174.6	150.0	131.1	122.3	168.1	118.9	128.4	204.6	104.0
1885.....	142.5	155.2	163.2	131.1	117.9	168.5	126.6	117.0	201.3	98.8
1886.....	142.5	155.2	176.3	116.7	122.7	165.5	126.6	116.1	203.9	102.8
1887.....	135.8	155.2	198.7	150.0	128.2	165.5	127.6	119.3	208.6	112.0
1888.....	144.8	161.2	225.0	154.4	138.8	165.1	127.6	119.3	208.6	117.2
1889.....	146.3	174.6	226.3	154.4	138.8	169.8	127.6	120.6	203.3	105.2
1890.....	153.7	198.5	211.8	154.4	138.8	171.5	140.7	129.8	209.2	104.0
1891.....	155.2	198.5	234.2	154.4	145.4	171.5	143.1	142.2	211.8	120.8

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	39. Slasher tenders	41. Slubber tenders	39. Speed- ers.	40. Speed- ers.	41. Speeder tenders	39. Spin- ners, frame.	40. Spin- ners, frame.	41. Spin- ners, frame.	41. Spin- ners, mule.	38. Spool- ers.
1840.....				95.0						
1841.....										
1842.....				97.0						
1843.....			84.6	90.1		93.7				
1844.....			87.5	90.1		89.5				
1845.....				88.1		92.6				
1846.....			88.5	89.1		92.6				
1847.....			87.5	97.0		93.7				
1848.....			91.3	102.0		92.6				
1849.....			84.6	102.0		94.7				
1850.....			88.5	103.0		91.6				
1851.....			92.3	98.0		87.4				120.0
1852.....			86.5	96.0		90.5				120.0
1853.....		92.1	100.0	101.0	100.0	86.3		79.5	91.7	120.0
1854.....		105.3	102.9	100.0	100.0	98.9		113.7	91.7	120.0
1855.....	74.1	105.3	107.7	104.0	100.0	89.5		113.7	103.4	120.0
1856.....		94.7		102.0	100.0			113.7	103.4	120.0
1857.....		118.4		102.0	108.6			113.7	103.4	100.0
1858.....		94.7		97.0	85.7	103.2		91.8	86.2	92.0
1859.....	83.3	93.4	92.3	99.0	92.9	94.7	100.0	104.1	91.7	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0
1861.....	83.3	102.6	103.8	101.0	104.3	96.8		100.0	103.4	84.0
1862.....	84.3	93.4	103.8	101.0	94.3	102.1		132.9	103.4	80.0
1863.....	97.2		92.3	93.1		96.8				105.0
1864.....	111.1		105.8	143.6		113.7	80.7			95.0
1865.....	127.3		109.6	151.5		117.9	76.6			
1866.....	148.1	134.2	160.6	154.5	115.7	190.5	77.1	137.0	189.7	200.0
1867.....	194.9	157.9	160.6	161.4	148.6	191.6	56.8	142.5	206.9	200.0
1868.....	175.9	163.2	160.6	158.4	162.9	169.5	76.0	142.5	206.9	192.0
1869.....	162.5	173.7	160.6	160.4	171.4	178.9	78.1	142.5	241.4	208.0
1870.....	181.0	156.6	160.6	158.4	145.7	225.3	86.5	147.9	241.4	184.0
1871.....	174.5	153.9	204.8	166.3	154.3	216.8	82.3	182.2	241.4	200.0
1872.....	177.3	160.5	212.5	172.3	150.0	232.6	85.4	182.2	241.4	200.0
1873.....	162.0	163.2	225.0	156.4	162.9	194.7	104.7	182.2	241.4	200.0
1874.....	139.8	148.7	184.6	144.6	120.0	217.9	84.9	194.5	206.9	172.0
1875.....	159.7	125.0	173.1	128.7	102.9	190.5	85.9	205.5	232.4	161.0
1876.....	154.2	123.7	179.8	134.7	121.4	177.9	63.5	176.7	204.1	138.0
1877.....	148.1	113.2	145.2	128.7	110.0	184.2	64.1	165.8	184.1	130.0
1878.....	148.1	123.7	162.5	123.8	105.7	194.7	67.2	165.8	184.1	130.0
1879.....	138.9	114.5	167.3	131.7	104.3	211.6	72.9	182.2	184.1	130.0
1880.....	133.8	105.3	166.3	127.7	102.9	212.6	73.4	182.2	189.7	138.0
1881.....	115.7	128.9	164.4	120.8	114.3	213.7	83.3	182.2	206.9	152.0
1882.....	135.6	125.0	173.1	121.8	112.9	227.4	82.8	182.2	241.4	152.0
1883.....	125.0	105.3	174.0	114.9	102.9	218.9	84.4	182.2	241.4	152.0
1884.....	131.9	117.1	172.1	132.7	112.9	221.1	79.7	194.5	227.6	145.0
1885.....	135.6	93.4	169.2	129.7	97.1	217.9	77.6	182.2	227.6	145.0
1886.....	148.1	98.7	172.1	142.6	94.3	221.1	77.6	182.2	227.6	139.0
1887.....	157.4	101.3	179.8	126.7	97.1	244.2	78.6	216.4	206.9	149.0
1888.....	157.4	100.0	178.8	133.7	100.0	246.3	79.2	228.8	206.9	155.0
1889.....	149.5	107.9	210.6	140.6	100.0	245.3	82.8	245.2	206.9	142.0
1890.....	152.8	107.9	206.7	140.6	105.7	247.4	84.9	245.2	248.3	142.0
1891.....	152.8	113.2	215.4	165.3	114.3	256.8	87.5	274.0	262.8	146.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	40. Spool- ers.	41. Spool- ers.	40. Stretch- ers.	38. Sweep- ers.	40. Sweep- ers.	40. Team- sters.	38. Third hands.	40. Third hands.	39. Warp- ers.	40. Warp- ers.
1840.....			95.5			100.0		82.2		
1841.....										
1842.....			88.3			100.0		85.4		
1843.....			83.8			100.0		72.3		
1844.....			82.0			100.0		72.3		71.2
1845.....			82.9			102.7		68.0	84.0	67.8
1846.....			92.8			102.7		72.3	84.0	64.4
1847.....			91.0			108.3			89.1	127.1
1848.....			96.4			93.0		63.2	96.6	
1849.....			98.2			94.3		79.1	96.6	
1850.....			98.2			94.3		75.9	98.3	
1851.....			95.5			98.0	70.6	79.1	88.2	
1852.....			90.1		84.6	102.7	88.1	73.9	78.2	
1853.....		89.9	99.1	140.8	84.6	100.0	97.4	79.1	80.7	
1854.....		105.1	98.2	140.8		102.7	97.4	92.5	86.6	
1855.....		105.1	99.1			102.7	104.1	79.1	94.1	
1856.....	154.8	107.6	97.3	100.0	97.4	89.0	101.0	88.9		
1857.....		116.5	96.4	100.0	97.4	100.0	107.7	97.2		88.1
1858.....	94.0	89.9	99.1	100.0	97.4	100.0	95.4	94.9		106.8
1859.....	98.8	100.0	98.2	100.0	97.4	100.0	100.0	100.4	97.5	106.8
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	83.3	100.0	107.2	70.4	102.6	91.7	71.1	100.0	108.4	99.2
1862.....	101.2	100.0	110.8	84.5		91.7	79.9	100.4	79.0	100.0
1863.....	82.1		114.4	97.2		89.0	103.1	82.2	67.2	101.7
1864.....	110.7		112.6	102.1	128.2	94.3	154.6	111.9	94.1	137.3
1865.....	114.3		117.1	102.1	153.8	91.0	159.3	122.1	97.5	127.1
1866.....	161.9	168.4	128.8	103.5	182.1	116.7	174.7	131.6	131.9	163.0
1867.....	185.7	131.6	139.6	86.6	192.3	116.7	174.7	136.8	168.1	189.0
1868.....	165.5	153.2	149.5	85.2	203.8	133.3	174.7	134.8	188.2	174.6
1869.....	189.3	153.2	147.7	88.0	203.8	133.3	167.5	132.0	152.9	172.0
1870.....	189.3	153.2	155.9	77.5	207.7	133.3	151.0	134.8	153.8	168.6
1871.....	192.9	153.2	160.4	78.2	220.5	133.3	162.9	138.3	181.5	186.4
1872.....	182.1	168.4	161.3	81.7	206.4	133.3	170.6	132.0	188.2	193.2
1873.....	173.8	168.4	142.3	82.4	197.4	133.3	172.2	132.0	173.1	172.0
1874.....	154.8	158.2	119.8	73.9	187.2	122.3	155.7	132.0	147.9	182.2
1875.....	156.0	163.3	116.2	63.7	187.2	116.7	130.4	132.0	146.2	228.8
1876.....	169.0	163.3	119.8	57.0	200.0		122.7	132.0	147.1	183.9
1877.....	171.4	153.2	110.8	56.3	178.2	116.7	126.3	144.7	142.9	168.6
1878.....	146.4	153.2	99.1	57.7	175.6	116.7	112.9	144.7	142.9	175.4
1879.....	135.7	153.2	135.1	56.3	153.8	125.0	118.6	125.3	133.6	144.1
1880.....	163.1	153.2	129.7	57.0	153.8	125.0	129.9	125.3	147.1	161.9
1881.....	182.1	177.2	131.5	59.9	157.7	125.0	136.1	125.7	153.8	156.8
1882.....	186.9	189.9	124.3	59.9	157.7	133.3	135.6	126.5	156.3	151.7
1883.....	185.7	189.9	164.9	62.0	175.6		132.0	126.1	151.3	164.4
1884.....	181.0	189.9	153.2	59.9	192.3		126.8	127.7	140.3	180.5
1885.....	188.1	179.7	126.1	61.3	192.3	100.0	125.3	124.5	138.7	183.9
1886.....	196.4	168.4	127.0	52.8	192.3	100.0	124.7	124.1	144.5	174.6
1887.....	201.2	189.9	123.4	54.9	192.3	100.0	132.0	124.1	144.5	189.0
1888.....	191.7	226.6	130.6	58.5	192.3	93.3	139.7	124.1	144.5	194.9
1889.....	194.0	200.0	134.2	57.0	192.3	89.3	140.2	122.5	157.1	186.4
1890.....	198.8	221.5	131.5	57.0	192.3	86.7	141.8	137.5	179.0	186.4
1891.....	198.8	253.2	174.8	93.0	175.6	86.7	169.1	149.0	175.6	186.4

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	41. Warp- ers.	41. Waste carriers (boys).	38. Waste hands.	41. Waste pickers (boys).	41. Watch- men.	38. Watch- men.	39. Watch- men.	40. Watch- men.	39. Weav- ers.	40. Weav- ers.
1840.....								103.8		
1841.....										
1842.....								103.8		
1843.....							104.7	96.7	113.0	
1844.....							105.2	96.7	83.7	
1845.....							108.1	100.0	96.7	
1846.....							135.5	92.9	87.0	100.0
1847.....							115.7	94.8	92.4	100.0
1848.....							97.1	100.0	96.7	100.0
1849.....							97.1	100.0	91.3	100.0
1850.....							97.1	100.0	93.5	100.0
1851.....							97.1	100.0	101.1	100.0
1852.....			68.2				97.1	100.0	88.0	100.0
1853.....	69.0	100.0	75.5	86.2	88.4		93.6	99.5	100.0	100.0
1854.....	86.2	111.9	75.5	115.5	100.0			99.5	101.1	100.0
1855.....	71.7	123.9	81.8	115.5	100.0	97.0		99.5	100.0	100.0
1856.....	94.5	123.9	81.8	115.5	110.9	97.0		100.0		100.0
1857.....	104.8	123.9	81.8	100.0	110.9	97.0		100.0		100.0
1858.....	82.8	111.9	90.9	100.0	100.0	94.0		100.0	132.6	100.0
1859.....	96.6	111.9	98.2	86.2	100.0	100.0	96.5	100.0	110.9	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	107.6	106.0	90.9	100.0	100.0	81.2	100.0	94.3	109.8	106.3
1862.....	96.6	106.0	86.4	100.0	100.0	81.2	100.0		112.0	106.3
1863.....			120.9			106.8	100.0	94.3	117.4	109.4
1864.....			136.4			112.8	116.3	134.0	128.3	115.6
1865.....			131.8			131.6	145.3	157.5	140.2	125.0
1866.....	138.6	137.3	113.6	201.7	199.2	150.4	174.4	165.1	185.9	125.0
1867.....	137.9	129.9	127.3	208.6	199.2	150.4	174.4	165.1	189.1	125.0
1868.....	160.7	149.3	136.4	208.6	199.2	143.6	174.4	165.1	202.2	131.3
1869.....	144.8	149.3	127.3	229.3	199.2	143.6	174.4	165.1	175.0	131.3
1870.....	144.8	149.3	118.2	229.3	199.2	131.6	174.4	165.1	214.1	134.4
1871.....	160.7	174.6	136.4	229.3	199.2	150.4	174.4	163.7	237.0	134.4
1872.....	165.5	174.6	136.4	229.3	199.2	150.4	174.4	165.1	269.6	134.4
1873.....	167.6	174.6	136.4	229.3	199.2	150.4	174.4	162.3	255.4	146.9
1874.....	140.0	174.6	120.9	215.5	199.2	131.6	174.4	150.5	201.1	146.9
1875.....	144.8	174.6	90.9	222.4	199.2	118.0	174.4	153.3	143.5	150.0
1876.....	135.2	123.9	90.0	172.4	174.4	118.0	167.4	147.6	151.1	150.0
1877.....	120.7	117.9	90.0	165.5	158.1	91.0	151.2	141.5	170.7	156.3
1878.....	120.7	117.9	85.5	165.5	158.1	111.3	156.4	141.5	228.3	168.8
1879.....	120.7	117.9	85.5	172.4	158.1	111.3	144.2	141.5	217.4	168.8
1880.....	120.7	117.9	100.0	179.3	158.1	111.3	143.0	141.5	231.5	187.5
1881.....	132.4	137.3	100.0	229.3	173.6	111.3	144.8	141.5	226.1	187.5
1882.....	132.4	137.3	100.0	229.3	155.0	111.3	156.4	141.5	215.2	187.5
1883.....	115.2	149.3	90.9	201.7	155.0	111.3	156.4	141.5	213.0	187.5
1884.....	115.2	149.3	90.9	201.7	155.0	111.3	156.4	141.5	216.3	187.5
1885.....	112.4	149.3	81.8	158.6	155.0	101.5	146.5	141.5	228.3	181.3
1886.....	113.8	155.2	88.2	158.6	177.5	101.5	148.8	141.5	206.5	171.9
1887.....	113.8	149.3	88.2	158.6	177.5	101.5	149.4	141.5	218.5	162.5
1888.....	126.2	198.5	88.2	158.6	177.5	101.5	145.9	146.2	206.5	140.6
1889.....	126.2	198.5	88.2	158.6	177.5	101.5	155.8	146.2	235.9	153.1
1890.....	126.2	198.5	88.2	172.4	177.5	101.5	150.0	146.2	230.4	153.1
1891.....	126.2	198.5	88.2	201.7	188.4	101.5	149.4	146.2	229.3	153.1

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

COTTON GOODS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	40. Weavers.	41. Weavers, 3 and 4 looms.	41. Weavers, 5 looms.	41. Weavers, 6, 7, and 8 looms.	41. Weavers, spare.	38. Wheel pitmen.	38. Yard hands.	39. Yard hands.	41. Yard hands.	38. Yarn car- riers.
1840.....										
1841.....										
1842.....										
1843.....								80.1		
1844.....								78.4		
1845.....								78.4		
1846.....								87.7		
1847.....								93.6		
1848.....								90.6		
1849.....								93.0		
1850.....								91.2		
1851.....						83.5		90.6		41.9
1852.....						83.5	63.6	91.8		51.5
1853.....		75.0	80.6	79.5	83.0	87.5	90.9	94.2	79.5	81.6
1854.....		75.0	80.6	95.5	92.0	87.5	90.9		75.0	81.6
1855.....		125.0	96.8	90.9	100.0	100.0	90.9		100.0	98.5
1856.....		125.0	96.8	97.2	100.0	100.0	90.9		100.0	98.5
1857.....		125.0	116.1	116.5	100.0	100.0	90.9		100.0	98.5
1858.....		100.0	88.7	89.2	100.0	91.5	81.8		73.0	85.3
1859.....	100.0	100.0	96.8	94.9	100.0	100.0	98.2	98.2	95.5	94.1
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	98.4	108.0	100.0	112.5	90.9	101.2	87.5	73.5
1862.....	102.4		96.8	89.8		112.5	81.8	92.4	87.5	73.5
1863.....	107.1					112.5	110.0	104.1		73.5
1864.....	107.1					125.0	127.3	119.3		91.9
1865.....	107.1					133.3	113.6	148.0		177.9
1866.....	119.0	125.0	129.0	113.6	150.0	150.0	127.3	154.4	156.5	144.9
1867.....	119.0	132.5	132.3	136.9	167.0	150.0	136.4	177.8	155.0	147.1
1868.....	107.1	140.0	145.2	146.6	200.0	150.0	136.4	148.0	150.0	143.4
1869.....	107.1	150.0	148.4	142.0	183.0	150.0	131.8	165.5	150.0	136.8
1870.....	109.5	157.5	138.7	134.1	200.0	137.5	136.4	175.4	150.0	133.8
1871.....	109.5	155.0	141.9	132.4	167.0	137.5	136.4	150.9	150.0	151.5
1872.....	114.3	160.0	130.6	136.9	167.0	137.5	136.4	159.1	150.0	151.5
1873.....	123.8	157.5	129.0	130.1	200.0	137.5	143.6	164.9	150.0	141.2
1874.....	123.8	125.0	122.6	125.6	175.0	100.0	127.3	167.8	125.0	128.7
1875.....	131.0	157.5	132.3	130.7	187.0	81.8	90.9	160.8	137.5	116.2
1876.....	131.0	150.0	130.6	119.3	163.0	72.0	81.8	146.2	137.5	94.9
1877.....	133.3	142.5	130.6	115.3	146.0	72.0	86.4	134.5	112.5	100.7
1878.....	138.1	157.5	129.0	118.2	146.0	68.0	81.8	134.5	112.0	117.6
1879.....	131.0	150.0	146.8	133.0	117.0	72.5	81.8	119.9	112.0	106.6
1880.....	154.8	150.0	133.9	120.5	146.0	80.0	94.5	119.3	112.5	102.9
1881.....	154.8	155.0	146.8	131.8	167.0	80.0	94.5	121.1	114.0	102.9
1882.....	154.8	150.0	140.3	122.7	200.0	80.0	94.5	133.3	117.5	102.9
1883.....	154.8	125.0	140.3	113.6	117.0	75.0	100.0	129.8	117.5	92.6
1884.....	147.6	152.5	148.4	138.6	133.0	75.0	100.0	124.0	117.5	92.6
1885.....	147.6	167.5	132.3	118.2	150.0	67.5	100.0	122.2	105.5	95.6
1886.....	147.6	150.0	140.3	119.3	117.0	73.0	90.0	117.0	105.5	104.4
1887.....	147.6	142.5	137.1	113.6	117.0	73.0	100.0	122.2	111.0	104.4
1888.....	147.6	135.0	143.5	113.6	117.0	73.0	100.0	124.6	111.0	104.4
1889.....	140.5	155.0	135.5	127.3	167.0	73.0	100.0	128.1	113.5	104.4
1890.....	140.5	160.0	145.2	136.4	200.0	73.0	100.0	126.9	113.5	117.6
1891.....	140.5	175.0	150.0	133.0	200.0	73.0	104.5	128.1	128.5	117.6

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

DRY GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	42. Porters.	42. Salesmen.	42. Sales- women.
1840			
1841			
1842			
1843			
1844			
1845			
1846			
1847			
1848			
1849			
1850	100.0	103.6	104.4
1851	100.0	103.6	104.4
1852	100.0	103.6	104.4
1853	100.0	103.6	104.4
1854	100.0	103.6	104.4
1855	100.0	103.6	104.4
1856	100.0	103.6	104.4
1857	100.0	103.6	104.4
1858	100.0	103.6	104.4
1859	100.0	100.0	100.0
1860	100.0	100.0	100.0
1861			
1862	100.0	100.0	100.0
1863	125.0	155.6	100.0
1864	125.0	155.6	100.0
1865	125.0	177.8	104.4
1866	125.0	177.8	104.4
1867	125.0	177.8	104.4
1868	125.0	177.8	104.4
1869	125.0	177.8	100.0
1870	125.0	177.8	100.0
1871	125.0	177.8	100.0
1872	125.0	168.9	104.4
1873	125.0	168.9	104.4
1874	125.0	168.9	104.4
1875	125.0	168.9	104.4
1876	125.0	168.9	104.4
1877	125.0	168.9	104.4
1878	125.0	168.9	108.1
1879	125.0	168.9	108.1
1880	125.0	168.9	108.1
1881	125.0	168.9	108.1
1882	125.0	168.9	108.1
1883			
1884	125.0	168.9	104.4
1885	125.0	168.9	104.4
1886	125.0	177.8	104.4
1887	125.0	177.8	104.4
1888	125.0	177.8	104.4
1889	125.0	222.2	140.6
1890	125.0	259.1	171.9
1891	125.0	253.8	171.9

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

GINGHAMS.

[The figures in the headings indicate the establishment number as tabulated in Table XII.]

Year.	43. Back boys.	43. Boiler tenders.	43. Card grind- ers.	43. Card strip- pers.	43. Card tenders.	43. Carpen- ters.	43. Doffers.	43. Draw- ers-in.	43. Draw- ing- frame tenders.	43. Dress- ers.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....										
1845.....										
1846.....										
1847.....										
1848.....										
1849.....	110.0	85.8	96.0	96.4	100.0	85.7	88.9	103.8	95.9	82.3
1850.....	110.0	85.8	100.0	100.0	100.0	85.7	88.9	106.3	95.9	91.5
1851.....	100.0	85.8	100.0	100.0	100.0	85.7	100.0	100.0	95.9	99.4
1852.....	100.0	85.8	100.0	100.0	100.0	85.7	100.0	106.3	95.9	99.4
1853.....	100.0	85.8	100.0	100.0	100.0	85.7	100.0	105.0	91.8	92.7
1854.....	123.3	85.8	100.0	100.0	100.0	100.0	100.0	90.0	91.8	97.6
1855.....	123.3	100.0	100.0	100.0	100.0	92.9	111.1	106.3	91.8	101.8
1856.....	123.3	100.0	100.0	100.0	100.0	100.0	111.1	105.0	100.0	106.1
1857.....	123.3	100.0	100.0	100.0	100.0	100.0	111.1	105.0	100.0	102.4
1858.....	123.3	100.0	100.0	100.0	100.0	100.0	111.1	107.5	100.0	106.1
1859.....	123.3	100.0	100.0	100.0	100.0	100.0	111.1	105.0	100.0	109.1
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	102.0	109.8
1862.....	100.0	100.0	100.0	100.0	100.0	85.7	111.1	117.5	102.0	114.0
1863.....	100.0	100.0	100.0	100.0	110.7	85.7	122.2	107.5	102.0	117.1
1864.....	100.0	100.0	106.8	114.5	110.7	100.0	144.4	102.5	112.2	109.8
1865.....	116.7	128.8	120.0	134.9	149.3	114.3	166.7	102.5	132.7	118.3
1866.....	133.3	139.9	140.0	180.7	186.7	128.6	166.7	125.0	163.3	137.2
1867.....	150.0	139.9	140.0	180.7	186.7	134.3	177.8	162.5	173.5	138.4
1868.....	156.7	139.9	132.8	172.3	178.7	142.9	177.8	160.0	167.3	137.2
1869.....	156.7	139.9	132.8	172.3	178.7	142.9	166.7	153.8	167.3	132.9
1870.....	166.7	139.9	132.8	172.3	178.7	157.1	144.4	153.8	167.3	137.8
1871.....	166.7	150.2	132.8	172.3	178.7	157.1	155.6	143.8	167.3	168.3
1872.....	183.3	150.2	132.8	172.3	178.7	157.1	155.6	163.8	167.3	171.3
1873.....	183.3	150.2	132.8	172.3	178.7	157.1	155.6	155.0	167.3	168.3
1874.....	183.3	150.2	132.8	172.3	178.7	157.1	155.6	161.3	167.3	157.3
1875.....	200.0	150.2	120.8	161.4	162.7	129.7	142.2	194.4	153.1	166.5
1876.....	200.0	150.2	120.8	161.4	162.7	142.9	137.8	178.8	153.1	172.6
1877.....	200.0	150.2	112.0	162.7	166.7	142.9	133.3	171.3	136.7	157.9
1878.....	186.7	150.2	112.0	162.7	169.3	142.9	133.3	170.0	136.7	143.9
1879.....	186.7	150.2	112.0	162.7	166.7	128.6	133.3	177.5	136.7	151.2
1880.....	186.7	137.3	112.0	150.6	153.3	128.6	133.3	187.5	136.7	134.8
1881.....	186.7	145.9	112.0	150.6	153.3	142.9	137.8	168.8	163.3	130.5
1882.....	200.0	145.9	112.0	150.6	153.3	142.9	137.8	152.5	173.5	122.0
1883.....	193.3	156.7	112.0	144.6	160.0	140.0	133.3	178.8	173.5	142.7
1884.....	183.3	156.7	112.0	138.6	153.3	140.0	133.3	166.3	153.1	130.5
1885.....	176.7	152.8	112.0	144.6	146.7	130.3	133.3	143.8	136.7	128.7
1886.....	176.7	163.1	112.0	132.5	123.3	130.3	133.3	155.0	155.1	126.2
1887.....	193.3	145.9	112.0	138.6	140.0	137.1	146.7	150.0	163.3	126.8
1888.....	193.3	175.1	112.0	138.6	140.0	137.1	151.1	140.0	163.3	136.6
1889.....	193.3	175.1	112.0	138.6	140.0	137.1	151.1	143.8	163.3	167.1
1890.....	193.3	175.1	120.0	138.6	140.0	137.1	151.1	140.0	163.3	190.2
1891.....	200.0	175.1	120.0	138.6	140.0	137.1	151.1	131.3	163.3	189.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

GINGHAMS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	43. Dyers.	43. Loom- fixers.	43. Ma- chin- ists.	43. Over- seers, card- ing dep't.	43. Over- seers, dress- ing dep't.	43. Over- seers, spin- ning dep't.	43. Over- seers, weav- ing dep't.	43. Paint- ers.	43. Pick- ers.	43. Quill- ers.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....										
1845.....										
1846.....										
1847.....										
1848.....										
1849.....	100.0	88.6	96.8	83.3	83.3	90.0	83.3	85.7	100.0	78.9
1850.....	100.0	88.6	96.8	83.3	100.0	90.0	100.0	85.7	117.0	78.9
1851.....	100.0	86.7	96.8	83.3	100.0	90.0	100.0	85.7	117.0	75.4
1852.....	100.0	80.1	96.8	83.3	100.0	90.0	100.0	85.7	117.0	87.7
1853.....	100.0	79.1	98.7	91.7	100.0	90.0	100.0	85.7	125.0	87.7
1854.....	100.0	79.1	98.1	91.7	100.0	100.0	100.0	100.0	125.0	87.7
1855.....	100.0	79.1	95.2	100.0	100.0	100.0	100.0	100.0	125.0	82.5
1856.....	100.0	105.4	96.1	100.0	100.0	100.0	100.0	100.0	125.0	94.7
1857.....	100.0	107.3	100.0	100.0	100.0	100.0	100.0	100.0	125.0	105.3
1858.....	100.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	117.0	96.5
1859.....	100.0	101.6	96.8	100.0	100.0	100.0	100.0	100.0	117.0	96.5
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	97.5	90.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1862.....	100.0	93.7	96.8	100.0	100.0	100.0	100.0	100.0	100.0	96.5
1863.....	100.0	106.6	96.8	100.0	100.0	100.0	100.0	100.0	100.0	103.5
1864.....	125.0	96.5	100.0	100.0	100.0	100.0	100.0	100.0	112.0	100.0
1865.....	150.0	127.8	109.7	100.0	100.0	100.0	100.0	102.9	125.0	128.1
1866.....	175.0	146.2	145.2	108.3	116.7	110.0	133.3	120.0	165.0	152.6
1867.....	175.0	147.2	151.6	108.3	116.7	120.0	133.3	120.0	165.0	164.9
1868.....	175.0	146.2	148.4	116.7	116.7	120.0	133.3	142.9	157.0	166.7
1869.....	163.0	146.2	148.4	116.7	116.7	120.0	133.3	142.9	157.0	171.9
1870.....	170.0	148.1	177.4	116.7	116.7	120.0	133.3	142.9	157.0	184.2
1871.....	170.0	148.1	177.4	116.7	116.7	120.0	133.3	142.9	157.0	184.2
1872.....	170.0	147.8	177.4	116.7	116.7	120.0	133.3	142.9	157.0	186.0
1873.....	170.0	144.6	177.4	116.7	116.7	120.0	133.3	142.9	150.0	186.0
1874.....	170.0	144.6	177.4	116.7	116.7	120.0	133.3	142.9	150.0	191.2
1875.....	170.0	137.3	161.3	133.3	133.3	125.4	133.3	157.1	136.0	179.8
1876.....	170.0	133.2	161.3	133.3	133.3	125.4	133.3	114.3	136.0	186.0
1877.....	150.0	126.9	161.3	133.3	133.3	127.8	133.3	142.9	140.0	168.4
1878.....	140.0	126.6	161.3	133.3	133.3	127.8	133.3	142.9	140.0	175.4
1879.....	140.0	126.6	145.2	133.3	133.3	127.8	133.3	142.9	130.0	177.2
1880.....	135.0	119.0	145.2	133.3	133.3	127.8	133.3	142.9	130.0	170.2
1881.....	145.0	128.5	154.8	133.3	133.3	127.8	133.3	128.6	125.0	168.4
1882.....	145.0	127.5	154.8	133.3	133.3	160.0	133.3	128.6	125.0	193.0
1883.....	147.5	123.4	158.1	133.3	133.3	160.0	133.3	114.3	125.0	166.7
1884.....	140.0	121.8	158.1	133.3	133.3	160.0	133.3	114.3	125.0	157.9
1885.....	133.0	115.5	145.2	133.3	133.3	160.0	133.3	114.3	120.0	157.9
1886.....	133.0	115.5	143.9	133.3	133.3	160.0	133.3	102.9	120.0	156.1
1887.....	150.0	122.2	151.6	133.3	133.3	160.0	133.3	114.3	125.0	163.2
1888.....	150.0	121.8	151.6	133.3	133.3	160.0	133.3	128.6	125.0	164.9
1889.....	150.0	122.8	151.6	133.3	133.3	160.0	133.3	142.9	140.0	178.9
1890.....	150.0	122.5	151.6	133.3	133.3	160.0	133.3	142.9	140.0	203.5
1891.....	150.0	121.8	151.6	133.3	133.3	160.0	133.3	142.9	140.0	184.2

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

GINGHAMS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	43. Reelers.	43. Second hands.	43. Smash mend- ers.	43. Speed- ers.	43. Spin- ners, frame.	43. Warp- ers.	43. Watch- men.	43. Weav- ers.	43. Wind- ers.	43. Yard hands.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....										
1845.....										
1846.....										
1847.....										
1848.....										
1849.....	106.1	88.1	86.5	95.0	89.3	116.4	91.0	111.1	116.1	92.0
1850.....	98.5	96.8	86.5	100.0	128.6	123.3	91.0	109.9	110.7	92.0
1851.....	93.9	96.8	86.5	91.7	83.9	106.8	100.0	82.1	98.2	92.0
1852.....	92.4	96.8	86.5	91.7	94.6	102.7	100.0	79.6	94.6	83.0
1853.....	92.4	100.0	86.5	91.7	94.6	102.7	100.0	79.6	80.4	92.0
1854.....	92.4	100.0	86.5	91.7	100.0	113.7	100.0	76.5	85.7	92.0
1855.....	92.4	100.0	96.2	86.7	100.0	113.7	100.0	87.0	85.7	100.0
1856.....	101.5	100.0	100.0	90.0	100.0	86.3	100.0	95.1	92.9	100.0
1857.....	100.0	100.0	100.0	91.7	100.0	89.0	100.0	99.4	98.2	100.0
1858.....	103.0	100.0	100.0	95.0	100.0	91.8	100.0	107.4	98.2	100.0
1859.....	115.2	100.0	100.0	95.0	100.0	109.6	100.0	99.4	107.1	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	120.5	100.0	100.0	100.0	105.4	100.0	100.0	101.9	107.1	100.0
1862.....	120.5	100.0	86.5	100.0	105.4	132.9	100.0	98.8	121.4	100.0
1863.....	145.5	100.0	86.5	100.0	105.4	123.3	100.0	98.1	121.4	100.0
1864.....	131.8	102.6	86.5	108.3	116.1	104.1	100.0	95.7	121.4	100.0
1865.....	130.3	123.9	96.2	133.3	142.9	109.6	114.6	125.3	142.9	150.0
1866.....	143.9	148.4	115.4	158.3	169.6	143.8	128.8	160.5	175.0	163.0
1867.....	148.5	151.6	115.4	166.7	178.6	143.8	128.8	180.9	182.1	163.0
1868.....	160.6	154.8	115.4	166.7	178.6	178.1	139.9	172.8	191.1	163.0
1869.....	160.6	154.8	115.4	166.7	178.6	184.9	139.9	175.3	192.9	163.0
1870.....	151.5	161.3	115.4	166.7	178.6	164.4	139.9	177.2	191.1	163.0
1871.....	207.6	161.3	115.4	166.7	223.2	200.0	139.9	195.1	226.8	163.0
1872.....	207.6	161.3	115.4	166.7	223.2	214.4	139.9	213.6	221.4	163.0
1873.....	215.2	161.3	115.4	191.7	223.2	212.3	145.9	206.2	241.1	175.0
1874.....	194.7	161.3	115.4	191.7	205.4	217.8	145.9	192.6	220.5	175.0
1875.....	171.2	149.7	104.6	175.0	187.5	216.4	145.9	181.5	200.0	165.0
1876.....	171.2	149.7	107.7	175.0	187.5	237.0	145.9	188.3	178.6	160.0
1877.....	154.0	156.1	107.7	158.3	169.6	163.7	145.9	155.6	171.4	160.0
1878.....	159.1	151.9	107.7	158.3	169.6	164.4	145.9	165.4	171.4	140.0
1879.....	153.0	150.6	115.4	158.3	178.6	153.4	145.9	158.6	171.4	140.0
1880.....	149.2	148.1	103.8	158.3	178.6	157.5	137.3	156.2	175.0	120.0
1881.....	154.5	155.2	111.5	150.0	196.4	145.9	137.3	148.1	170.5	140.0
1882.....	148.5	155.5	111.5	158.3	169.6	146.6	137.3	148.8	185.7	140.0
1883.....	151.5	156.1	115.4	158.3	178.6	164.4	137.3	160.5	178.6	135.0
1884.....	157.6	153.5	111.5	166.7	151.8	139.7	137.3	146.3	178.6	135.0
1885.....	148.5	151.6	113.1	133.3	125.0	131.5	133.0	138.9	166.1	130.0
1886.....	143.2	151.6	113.1	133.3	133.9	116.4	133.0	133.3	167.9	135.0
1887.....	166.7	151.6	119.2	141.7	142.9	141.1	137.3	154.9	167.9	135.0
1888.....	162.1	151.6	119.2	141.7	160.7	130.1	137.3	153.1	175.0	135.0
1889.....	171.2	151.6	119.2	158.3	160.7	137.0	137.3	152.5	205.4	135.0
1890.....	177.3	154.8	119.2	158.3	151.8	178.1	137.3	158.0	183.9	135.0
1891.....	181.8	154.8	115.4	175.0	160.7	176.7	137.3	162.3	187.5	135.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

GROCERIES.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	44. Sales- men.	44. Team- sters.
1840.....		
1841.....		
1842.....		
1843.....		
1844.....		
1845.....		
1846.....		
1847.....		
1848.....		
1849.....		
1850.....		
1851.....		
1852.....		
1853.....		
1854.....		
1855.....	100.0	100.0
1856.....	100.0	100.0
1857.....	100.0	100.0
1858.....	100.0	100.0
1859.....	100.0	100.0
1860.....	100.0	100.0
1861.....	100.0	100.0
1862.....	157.1	133.3
1863.....	185.7	133.3
1864.....	185.7	133.3
1865.....	185.7	133.3
1866.....	185.7	133.3
1867.....	185.7	133.3
1868.....	185.7	133.3
1869.....	185.7	133.3
1870.....	161.7	132.3
1871.....	161.7	133.3
1872.....	161.7	133.3
1873.....	161.7	133.3
1874.....	161.7	133.3
1875.....	181.1	133.3
1876.....	181.1	133.3
1877.....	181.1	133.3
1878.....	185.7	133.3
1879.....	185.7	133.3
1880.....	185.7	133.3
1881.....	185.7	133.3
1882.....	185.7	133.3
1883.....	185.7	133.3
1884.....	185.7	133.3
1885.....	233.7	155.7
1886.....	233.7	155.7
1887.....	233.7	155.7
1888.....	233.7	155.7
1889.....	233.7	155.7
1890.....	233.7	155.7
1891.....	233.7	155.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

ILLUMINATING GAS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	47. Black- smiths.	48. Black- smiths.	47. Black- smiths' helpers.	48. Black- smiths' helpers.	47. Brick- layers.	48. Brick- layers.	47. Brick- layers' helpers.	47. Carpen- ters.	48. Carpen- ters.	46. Coal hand- lers.	47. Engi- neers.
1840	89.1		122.2		83.1		84.3	85.7			
1841	89.1		122.2		71.3		84.3	100.0			
1842	89.1		111.1		71.3		84.3	100.0			80.8
1843	76.3		111.1		118.8		84.3	85.7			80.8
1844	76.2		111.1		118.8		84.3	92.9			80.8
1845	82.7		111.1		118.8		93.6	92.9			80.8
1846	82.7		111.1		95.0		93.6	92.9			80.8
1847	89.1		111.1		89.1		93.6	95.1			92.4
1848	89.1		111.1		95.0		93.6	100.0			92.4
1849	89.1	100.0	111.1	87.5	89.1		93.6	85.7			92.4
1850	89.1	100.0	122.2	87.5	95.0		93.6	85.7			92.4
1851	89.1	100.0	122.2	87.5	95.0		84.3	85.7			92.4
1852	76.3	100.0	100.0	87.5	95.0		93.6	78.6			92.4
1853	76.3	100.0	100.0	100.0	95.0		103.0	85.7			92.4
1854	80.7	100.0	100.0	100.0	95.0		100.0	100.0			92.4
1855	95.4	100.0	100.0	100.0	96.9		103.0	100.0			92.4
1856	93.4	100.0	100.0	100.0	98.1	88.9	100.0	100.0		100.0	92.4
1857	93.4	116.7	100.0	100.0	95.0	88.9	103.0	109.4	98.4	100.0	86.6
1858	101.8	100.0	100.0	100.0	99.8	88.9	100.0	100.0	98.4	100.0	86.6
1859	104.3	100.0	111.1	100.0	95.0	100.0	98.5	100.0	98.4	100.0	92.4
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	96.7	100.0	111.1	100.0	97.1	100.0	103.0	100.0	102.6	100.0	100.0
1862	96.7	100.0	100.0	100.0	97.1	111.1	101.1	100.0	102.6	100.0	100.0
1863	103.8	127.7	111.1	115.0	106.9	122.2	118.7	100.0	114.8	100.0	111.5
1864	123.7	172.3	133.3	175.0	118.8	133.3	131.1	133.4	147.5	142.5	111.5
1865	150.6	189.0	177.8	200.0	126.6	177.8	149.8	171.4	163.9	150.0	134.6
1866	150.6	216.7	177.8	200.0	142.5	177.8	149.8	171.4	196.7	150.0	138.6
1867	152.7	216.7	177.8	200.0	166.3	222.2	149.8	179.4	163.9	175.0	161.7
1868	163.4	216.7	200.0	200.0	190.0	222.2	149.8	195.1	163.9		161.7
1869	157.8	216.7	200.0	200.0	190.0	222.2	149.8	208.6	147.5	200.0	161.7
1870	157.8	216.7	200.0	200.0	190.0	222.2	149.8	210.3	147.5	200.0	161.7
1871	157.8	216.7	200.0	200.0	190.0	222.2	149.8	208.6	147.5	200.0	161.7
1872	157.8	216.7	200.0	200.0	190.0	222.2	149.8	207.1	147.5	200.0	161.7
1873	183.2	216.7	222.2	200.0	223.3	222.2	168.5	224.9	163.9	225.0	184.8
1874	181.7	216.7	222.2	200.0	213.8	222.2	157.3	228.6	163.9	200.0	184.8
1875	181.7	216.7	222.2	200.0	190.0	200.0	162.2	214.3	163.9	200.0	177.1
1876	181.7	216.7	222.2	200.0	174.1	200.0	168.5	210.6	163.9	183.0	177.1
1877	183.2	189.0	222.2	175.0	166.3	177.8	168.5	200.0	163.9	150.0	177.1
1878	183.2	161.0	222.2	150.0	166.3	177.8	168.5	200.0	131.1	150.0	177.1
1879	147.6	161.0	200.0	150.0	124.7	177.8	149.8	160.9	131.1	150.0	154.0
1880	132.3	161.0	177.8	150.0	130.6	166.7	149.8	142.9	163.9	150.0	134.6
1881	132.3	166.7	177.8	162.5	130.6	155.6	112.4	157.1	163.9	150.0	134.6
1882	130.8	166.7	177.8	162.5	166.3	155.6	118.7	157.1	163.9	150.0	138.6
1883	137.4	166.7	185.3	162.5	190.0	155.6	131.1	178.6	163.9	150.0	150.1
1884	137.4	166.7	182.2	150.0	166.3	155.6	131.1	178.6	163.9	150.0	150.1
1885	137.4	166.7	182.2	150.0	166.3	157.1	131.1	178.6	163.9	150.0	150.1
1886	137.4	150.0	182.2	125.0	166.3	155.6	149.8	178.6	163.9	150.0	150.1
1887	137.4	150.0	182.2	125.0	166.3	144.4	131.1	178.6	163.9	150.0	150.1
1888	136.6	150.0	185.3	150.0	173.4	144.4	149.8	185.7	163.9	150.0	150.1
1889	136.6	150.0	177.8	150.0	178.1	144.4	149.8	192.9	163.9	150.0	150.1
1890	130.5	150.0	177.8	150.0	175.1	144.4	149.8	185.7	163.9	150.0	150.1
1891	136.6	150.0	177.8	165.0	173.4	156.4	149.8	178.6	163.9	150.0	150.1

TABLE 37.—Rates of wages for 52 years—Relative wages—Continued.

ILLUMINATING GAS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	46. Fire- men.	47. Fire- men.	48. Fire- men.	47. Labor- ers.	48. Labor- ers.	46. Labor- ers, street.	47. Paint- ers.	47. Pavers.	45. Retort- men.	47. Stable- men.	48. Watch- men.
1840		89.6		97.2				90.0			
1841		89.6		97.6				100.0			
1842		89.6		95.7				100.0			
1843		89.6		100.9				90.0			
1844		89.6		97.2				90.0			
1845		89.6		98.1				100.0			
1846		89.6		98.1				100.0			
1847		89.6		97.2				100.0			
1848		89.6		98.6				100.0			
1849		89.6	93.9	98.1	87.5			100.0			
1850	100.0	89.6	93.9	97.2	87.5	85.0		100.0			
1851	100.0	89.6	102.4	97.6	87.5	85.0		100.0			
1852	100.0	91.0	103.3	99.1	91.5	85.0		100.0			
1853	100.0	91.0	103.3	98.1	100.0	85.0		100.0			
1854	100.0	100.0	103.3	98.1	100.0	87.5		100.0	112.6		
1855	100.0	100.0	103.3	98.6	100.0	87.5		106.8	124.1		
1856	100.0	100.0	103.3	99.1	100.0	87.5	100.0	105.2	120.4	100.0	
1857	100.0	100.0	103.3	99.1	100.0	87.5	100.0	100.0	103.1	100.0	104.5
1858	100.0	100.0	100.0	99.1	100.0	100.0	100.0	100.0	103.1	100.0	100.0
1859	100.0	100.0	100.0	100.5	100.0	100.0	100.0	100.0	103.1	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	99.1	100.0	100.0	100.0	100.0	109.4	100.0	100.0
1862	100.0	100.0	100.0	98.6	100.0	100.0	116.7	100.0	109.4	100.0	102.3
1863	112.5	130.6	115.9	142.2	115.0	110.0	116.7	100.0	109.4	104.0	113.6
1864	137.0	149.3	204.1	142.2	150.0	125.0	150.0	120.0	116.2	140.0	159.1
1865	175.0	186.6	169.4	186.3	175.0	125.0	183.3	160.0	137.7	160.0	159.1
1866	175.0	186.6	183.7	187.7	190.0	150.0	200.0	160.0	137.7	160.0	159.1
1867	200.0	186.6	183.7	170.1	190.0	150.0	216.7	160.0	159.7	160.0	159.1
1868	200.0	201.5	183.7	168.2	175.0	170.5	216.7	160.0	162.8	180.0	159.1
1869	200.0	223.9	183.7	188.2	175.0	166.5	233.3	200.0	171.7	180.0	159.1
1870	200.0	223.9	183.7	187.7	150.0	170.0	233.3	200.0	172.3	180.0	136.4
1871	200.0	223.9	195.9	187.7	175.0	175.0	233.3	200.0	172.3	180.0	159.1
1872	200.0	223.9	195.9	178.7	175.0	200.0	233.3	200.0	168.1	180.0	159.1
1873	225.0	298.5	204.1	189.1	150.0	200.0	258.3	220.0	172.3	210.0	181.8
1874	225.0	261.2	204.1	189.1	150.0	175.0	258.3	220.0	172.3	210.0	181.8
1875	202.5	242.5	199.2	165.9	150.0	150.0	258.3	200.0	172.3	210.0	181.8
1876	196.5	242.5	195.5	165.9	150.0	146.5	250.0	200.0	172.3	210.0	159.1
1877	177.5	223.9	195.5	142.2	150.0	125.0	233.3	200.0	172.3	210.0	159.1
1878	177.5	223.9	175.9	142.2	125.0	125.0	233.3	200.0	172.3	210.0	159.1
1879	170.5	205.2	175.9	118.5	125.0	125.0	189.0	160.0	172.3	200.0	159.1
1880	166.5	186.6	177.6	117.1	125.0	125.0	191.7	140.0	165.4	180.0	159.1
1881	166.5	205.2	177.6	135.1	125.0	150.0	191.7	157.2	163.9	180.0	181.8
1882	187.5	205.2	178.8	138.4	125.0	150.0	191.7	200.0	163.9	180.0	181.8
1883	187.0	223.9	178.8	148.8	125.0	150.0	191.7	200.0	163.9	180.0	181.8
1884	186.5	223.9	179.2	142.2	125.0	150.0	191.7	200.0	155.0	190.0	181.8
1885	183.5	223.9	178.4	144.5	125.0	150.0	191.7	200.0	157.6	190.0	181.8
1886	183.5	223.9	178.4	147.9	125.0	150.0	191.7	200.0	157.6	170.0	181.8
1887	183.5	223.9	178.4	153.1	125.0	150.0	191.7	200.0	157.6	180.0	181.8
1888	183.5	223.9	178.4	151.7	125.0	150.0	191.7	200.0	157.6	180.0	181.8
1889	183.5	223.9	178.4	151.2	125.0	150.0	194.3	200.0	157.6	180.0	181.8
1890	183.5	223.9	178.4	154.0	125.0	165.0	194.3	200.0	157.6	180.0	181.8
1891	183.5	223.9	178.4	154.0	129.5	156.5	191.7	200.0	157.6	180.0	181.8

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

LEATHER.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	51. Bark grinders.	51. Beams- ters.	50. Blackers.	50. Cellar hands.	50. Finish- ers.	50. Flatten- ers.	50. Glossers.	51. Leach tenders.
1840.								
1841.								
1842.								
1843.								
1844.								
1845.								
1846.								
1847.								
1848.								
1849.								
1850.								
1851.								
1852.								
1853.								
1854.								
1855.								
1856.			100.0	90.0	83.7	95.3	85.8	
1857.	55.7	66.7	108.5	96.5	88.3	96.1	71.7	77.7
1858.	66.7	69.0	100.0	100.0	97.5	100.0	100.0	77.7
1859.	89.0	89.0	100.0	100.0	100.0	128.8	100.0	89.0
1860.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.	111.0	111.0	100.0	116.5	109.2	114.6	114.6	100.0
1862.	111.0	129.0	116.5	125.0	127.6	128.8	128.8	122.3
1863.	133.3	140.0	116.5	141.5	144.4	157.5	142.9	133.3
1864.	144.3	144.3	133.5	175.0	141.0	171.7	142.9	144.3
1865.	144.3	144.3	133.5	200.0	157.3	185.8	142.9	144.3
1866.	144.3	144.3	158.5	200.0	143.5	162.2	150.2	139.0
1867.	139.0	133.3	158.5	183.5	148.5	154.1	150.2	133.3
1868.	133.3	133.3	170.0	179.5	149.4	164.4	157.5	133.3
1869.	133.3	133.3	186.0	183.5	151.9	157.5	167.0	133.3
1870.	122.3	122.3	193.5	193.5	164.0	164.4	171.7	122.3
1871.	119.7	118.7	189.0	193.5	163.2	164.4	171.7	133.3
1872.	119.7	119.7	183.5	193.5	162.8	167.0	164.4	133.3
1873.	122.3	122.3	189.0	196.5	161.1	171.7	164.4	122.3
1874.	116.7	112.0	189.0	196.5	163.2	171.7	166.5	118.3
1875.	97.3	98.3	166.5	172.0	149.4	175.5	153.6	103.7
1876.	96.3	90.0	161.0	162.0	146.4	163.1	160.9	115.0
1877.	100.0	100.0	161.0	166.5	151.9	160.1	162.2	97.3
1878.	105.7	102.3	166.5	171.0	155.2	171.7	167.0	97.3
1879.	89.0	93.3	158.5	161.5	146.4	147.2	142.9	86.0
1880.	100.0	100.0	162.5	173.5	143.5	142.9	139.5	91.7
1881.	94.3	93.0	162.5	168.5	145.6	145.1	144.6	108.3
1882.	89.0	93.7	162.5	164.0	147.3	147.2	148.5	108.3
1883.	103.7	103.7	159.5	169.5	145.6	147.2	144.6	97.3
1884.	101.7	102.3	165.5	169.5	142.3	147.2	151.9	100.0
1885.	101.7	103.0	157.0	156.5	142.7	138.2	160.9	103.0
1886.	120.7	113.0	156.0	150.0	141.0	136.1	130.9	122.3
1887.	100.0	97.0	166.5	150.0	151.9	157.5	136.1	100.0
1888.	98.7	97.3	158.5	150.0	153.6	157.5	157.5	106.7
1889.	98.7	94.3	150.0	166.5	142.3	157.5	157.5	104.3
1890.	100.0	95.7	150.0	166.5	141.0	164.4	157.5	102.3
1891.	107.0	104.3	166.5	145.5	141.0	164.4	200.4	100.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

LEATHER—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	51. Liners.	50. Setters- out.	51. Shavers.	50. Splitters.	50. Stuffers.	50. Table hands.	50. Whiten- ers.	51. Yard hands.
1840.....								
1841.....								
1842.....								
1843.....								
1844.....								
1845.....								
1846.....								
1847.....								
1848.....								
1849.....								
1850.....								
1851.....								
1852.....								
1853.....								
1854.....								
1855.....								
1856.....		96.6		77.7	92.2	86.7	80.7	
1857.....	66.7	85.8	86.6	77.7	95.4	79.1	112.6	85.8
1858.....	77.7	103.4	86.6	100.0	104.1	110.4	112.6	85.8
1859.....	100.0	107.3	100.0	100.0	107.4	118.5	112.6	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	111.0	114.6	100.0	122.3	107.4	105.2	112.6	120.2
1862.....	121.0	128.8	100.0	133.3	123.0	126.5	132.9	130.5
1863.....	133.3	157.5	100.0	144.3	143.3	142.2	150.2	133.5
1864.....	144.3	185.8	120.0	155.7	149.8	147.4	185.0	173.4
1865.....	144.3	185.8	120.0	155.7	179.3	157.8	187.9	182.4
1866.....	144.3	171.7	120.0	155.7	174.2	157.8	177.3	185.8
1867.....	133.3	157.5	113.4	127.7	176.5	173.9	169.1	175.5
1868.....	133.3	157.5	113.4	126.0	176.5	.....	160.9	171.7
1869.....	133.3	157.5	106.6	122.3	172.8	.....	171.5	171.7
1870.....	116.7	142.9	111.8	137.0	180.6	142.2	182.6	158.4
1871.....	111.0	142.9	108.8	144.3	180.6	173.9	198.6	140.8
1872.....	111.0	142.9	120.0	140.7	169.1	173.9	198.6	152.8
1873.....	111.0	157.5	120.0	137.0	174.2	165.9	198.6	164.4
1874.....	111.0	157.5	113.4	141.7	180.6	165.9	198.6	145.5
1875.....	100.0	157.5	113.4	150.0	153.5	157.8	193.2	128.8
1876.....	100.0	136.1	113.4	150.0	148.4	145.5	177.3	116.3
1877.....	100.0	142.9	106.6	141.7	148.4	151.7	177.3	121.5
1878.....	111.0	132.2	93.4	144.3	158.1	151.2	176.8	121.5
1879.....	111.0	125.3	93.4	137.0	153.9	145.0	162.3	110.3
1880.....	111.0	118.0	113.4	135.0	146.1	145.0	158.0	121.0
1881.....	100.0	118.0	110.0	135.0	146.1	139.8	158.0	124.0
1882.....	100.0	118.0	113.4	139.0	147.9	142.2	158.0	126.6
1883.....	100.0	118.0	113.4	144.3	146.5	157.8	158.5	128.8
1884.....	89.0	118.0	113.4	144.3	148.4	165.9	161.8	127.0
1885.....	85.3	121.5	113.4	139.0	138.2	.....	160.9	132.2
1886.....	96.3	128.8	106.6	133.3	138.2	142.2	160.9	135.2
1887.....	96.3	128.8	110.0	133.3	156.7	173.9	167.6	124.5
1888.....	96.3	138.2	110.0	126.0	161.3	157.8	166.2	122.3
1889.....	96.3	138.2	113.4	122.3	146.1	142.2	155.6	119.3
1890.....	100.0	142.9	113.4	116.7	146.1	142.2	155.6	123.6
1891.....	100.0	142.9	113.4	130.7	153.5	145.5	156.5	129.6

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

LUMBER.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	52. Laborers.	52. Lumber- men.	53. Salesmen.	53. Team- sters.	53. Yard hands.
1840					59.1
1841					56.3
1842					61.5
1843					70.7
1844					76.0
1845					89.9
1846					92.8
1847					93.8
1848			100.0		101.4
1849			100.0		94.7
1850			100.0	77.8	97.6
1851			100.0	77.8	96.2
1852			100.0	77.8	94.2
1853			100.0	77.8	108.2
1854			100.0	88.9	108.2
1855			100.0	88.9	111.1
1856			100.0	77.8	111.1
1857			100.0	72.4	100.0
1858	100.0	101.0	100.0	83.1	91.8
1859	100.0	95.0	100.0	83.1	99.5
1860	100.0	100.0	100.0	100.0	100.0
1861	100.0	99.0	100.0	115.1	103.8
1862	119.5	129.7	91.7	94.2	101.0
1863	159.7	182.2	113.7	98.2	105.3
1864	179.2	189.1	114.7	117.3	122.6
1865	179.2	202.0	139.0	111.1	134.6
1866	179.2	202.0	139.0	122.2	128.8
1867	179.2	206.9	139.0	122.2	138.0
1868	179.2	208.9	150.0	133.3	147.1
1869	179.2	211.9	150.0	133.3	153.4
1870	179.2	210.9	155.7	140.9	158.2
1871	179.2	205.0	155.7	140.9	159.6
1872	179.2	202.0	166.7	155.6	159.6
1873	179.2	208.9	182.0	155.6	163.0
1874	179.2	218.8	182.0	155.6	162.0
1875	179.2	201.0	171.3	144.4	163.0
1876	179.2	205.9	171.3	144.4	164.4
1877	179.2	202.0	182.0	144.4	176.4
1878	179.2	210.9	182.0	140.9	176.4
1879	179.2	212.9	182.0	133.3	169.7
1880	179.2	206.9	182.0	133.3	164.9
1881	194.8	189.1	190.3	133.3	176.4
1882	194.8	192.1	190.3	133.3	165.9
1883	194.8	193.1	193.7	133.3	162.0
1884	194.8	189.1	155.7	148.0	162.0
1885	194.8	191.1	155.7	148.0	162.0
1886	194.8	191.1	155.7	144.4	162.0
1887	194.8	189.1	159.0	144.4	167.3
1888	194.8	191.1	159.0	143.1	164.9
1889	194.8	189.1	186.7	143.1	162.0
1890	194.8	189.1	186.7	148.0	164.9
1891	194.8	193.1	188.7	148.0	164.9

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	54. Black- smiths.	55. Black- smiths.	56. Black- smiths.	57. Black- smiths.	61. Black- smiths.	62. Black- smiths.	65. Black- smiths.	67. Black- smiths.	68. Black- smiths.	71. Black- smiths.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....									113.2	
1845.....						78.0			110.0	
1846.....						88.7		71.4	125.2	
1847.....								71.4	134.8	87.7
1848.....						83.3		78.6	134.8	87.7
1849.....						83.3			145.2	88.0
1850.....						88.7		85.7	150.0	89.2
1851.....					75.0	88.7		89.4	120.0	92.8
1852.....					75.0	94.7		91.1	113.2	92.0
1853.....			85.7		75.0	101.7		92.9		92.8
1854.....	111.1	88.4	95.1		75.0	100.0		107.1	130.0	98.6
1855.....	88.9	92.3			87.5	105.7		107.1	126.8	95.7
1856.....	88.9	82.6		98.1	87.5	94.7		107.1	137.6	95.2
1857.....	88.9	85.5		100.0	100.0		93.8	107.1	117.6	98.6
1858.....	100.0	92.3		100.3	100.0	100.0	75.0	107.1		90.4
1859.....	88.9	100.0	95.1	101.3	100.0	88.7	100.0	100.0		92.0
1860.....	100.0		100.0	100.0	100.0	100.0		100.0	100.0	100.0
1861.....	100.0		100.0	99.4	87.5	94.7		100.0		100.5
1862.....	94.4	92.6	114.3	94.6	87.5	105.3		100.0	100.0	103.1
1863.....	100.0	95.8	114.3	108.9	100.0	105.7	83.0	104.6	103.2	112.8
1864.....	111.1	117.7	128.6	134.5	100.0	113.7		114.3	120.0	131.6
1865.....	155.6	136.4		175.7	119.0	166.7	108.0	157.1	164.0	154.9
1866.....	155.6	131.9		183.7	119.0	166.7			154.8	163.9
1867.....	155.6	147.8		166.5	150.0	159.3	100.0	171.4	167.6	168.2
1868.....	155.6	149.6		167.7	150.0	150.0	100.0	185.7	150.0	168.2
1869.....	155.6	153.8		167.7	150.0	166.7		185.7	149.6	168.0
1870.....	127.8	140.6	200.0	165.2	150.0	133.3		185.7	148.4	167.2
1871.....	126.0	158.3	185.7	159.7	150.0	150.0		200.0	156.0	168.4
1872.....	127.8		171.4	162.3	150.0	166.7		200.0	161.2	167.5
1873.....	166.7		185.7	171.6	175.0	183.3		214.3	174.0	163.1
1874.....	133.3		192.9	171.6	175.0	183.3	137.5	214.3	158.8	170.4
1875.....			192.9	154.3	175.0	183.3	137.5	214.3	172.0	168.0
1876.....	105.6		167.1	154.3	175.0		137.5	214.3	144.0	154.5
1877.....	122.2		160.0	138.3	150.0		137.5	200.0	153.2	137.8
1878.....	133.3		142.9	135.8	150.0		137.5	200.0	149.2	137.8
1879.....	116.7		142.9	133.2	137.5	133.3	137.5	200.0	120.0	131.1
1880.....	122.2		142.9	133.2	137.5	133.3	137.5	185.7	130.0	132.0
1881.....	116.7		157.1	149.2	162.5	133.3	137.5	200.0	149.2	132.3
1882.....	122.2		171.4	147.9	162.5	133.3	137.5	221.4	156.0	138.6
1883.....	126.0		200.0	151.8	162.5	133.3	141.8	166.6	173.2	144.1
1884.....	144.4		200.0	159.7	162.5	116.7	141.8	171.4	153.2	138.1
1885.....	155.6		185.7	150.2	162.5	116.7	141.8	162.0	136.0	131.1
1886.....	138.9		185.7	151.8	162.5	116.7	141.8	166.6	144.0	131.8
1887.....	155.6		185.7	150.2	162.5	133.3	133.3	178.6	149.2	142.4
1888.....	122.2		185.7	153.4	162.5	133.3	125.0	166.6		145.3
1889.....	155.6		185.7	151.8	162.5		125.0	182.9	188.0	146.0
1890.....	155.6		200.0	151.8	162.5		125.0	171.4	180.0	146.5
1891.....	133.3		200.0	151.8	162.5		125.0	152.3	180.0	147.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII]

Year.	72. Black- smiths.	73. Black- smiths.	74. Black- smiths.	54. Black- smiths' helpers.	55. Black- smiths' helpers.	57. Black- smiths' helpers.	67. Black- smiths' helpers.	68. Black- smiths' helpers.	71. Black- smiths' helpers.	72. Black- smiths' helpers.
1840.....	88.1	.....	.....	.....	.....	.....	.....	.....	.....	92.0
1841.....	88.8	.....	.....	.....	.....	.....	.....	.....	.....	89.1
1842.....	90.8	.....	.....	.....	.....	.....	.....	.....	.....	100.0
1843.....	90.8	.....	.....	.....	.....	.....	.....	.....	.....	83.4
1844.....	86.8	.....	.....	.....	.....	.....	.....	100.0	.....	71.4
1845.....	99.0	.....	.....	.....	.....	.....	.....	100.0	.....	82.9
1846.....	95.7	.....	.....	.....	.....	.....	77.7	100.0	.....	.....
1847.....	.....	.....	.....	.....	.....	.....	.....	.....	103.0	.....
1848.....	88.8	.....	.....	.....	.....	.....	.....	.....	103.0	96.6
1849.....	103.3	.....	77.3	.....	.....	.....	.....	.....	102.6	98.3
1850.....	92.1	.....	77.3	.....	.....	.....	81.7	100.0	104.8	90.3
1851.....	82.5	.....	77.3	.....	.....	.....	100.0	97.1	97.8	97.1
1852.....	88.1	.....	77.3	.....	.....	.....	100.0	102.9	97.8	93.1
1853.....	87.5	.....	90.9	.....	.....	.....	102.9	.....	97.8	93.1
1854.....	88.4	.....	90.9	90.9	112.0	.....	128.6	104.6	110.4	98.3
1855.....	94.7	79.4	100.0	109.1	100.0	.....	114.3	102.9	106.5	100.0
1856.....	96.7	88.1	113.6	109.1	116.5	92.0	104.6	103.4	108.7	96.0
1857.....	90.8	92.6	113.6	109.1	116.5	100.0	114.3	104.6	108.7	96.0
1858.....	81.8	91.0	100.0	90.9	100.0	100.0	107.4	.....	87.0	92.0
1859.....	85.5	90.5	100.0	90.9	100.0	100.0	100.0	85.7	87.0	96.0
1860.....	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0	100.0	100.0
1861.....	92.4	100.3	100.0	100.0	.....	100.0	107.4	114.3	99.6	100.0
1862.....	95.7	108.2	90.9	95.6	109.0	97.0	100.0	114.3	100.0	103.4
1863.....	102.3	111.6	100.0	100.0	113.0	100.0	85.7	.....	120.0	114.3
1864.....	121.1	138.9	113.6	100.0	131.5	135.0	142.9	.....	140.9	128.6
1865.....	148.5	158.7	113.6	133.5	148.0	159.0	185.7	.....	171.7	171.4
1866.....	165.0	152.1	113.6	121.1	147.0	173.0	178.9	.....	176.1	176.6
1867.....	160.1	158.7	113.6	135.4	151.5	176.5	185.7	.....	176.5	176.0
1868.....	163.0	163.2	113.6	127.3	160.0	173.5	185.7	.....	177.0	177.1
1869.....	163.4	163.2	118.2	133.5	165.0	178.0	200.0	.....	177.0	160.0
1870.....	132.0	160.6	118.2	.....	175.0	178.0	192.6	.....	173.9	197.1
1871.....	159.4	133.3	113.6	127.3	175.0	176.5	190.3	.....	173.9	182.9
1872.....	158.1	137.6	118.2	.....	.....	172.5	209.7	.....	174.8	178.9
1873.....	169.6	142.9	127.3	133.5	.....	171.0	214.3	185.7	173.5	184.0
1874.....	.....	147.4	113.6	133.5	.....	171.0	228.6	171.4	174.3	161.7
1875.....	148.5	138.6	104.5	.....	.....	156.5	190.3	171.4	162.2	160.0
1876.....	140.6	124.3	95.5	.....	.....	150.0	200.0	171.4	162.6	149.7
1877.....	140.6	108.5	104.5	109.1	.....	150.0	171.4	152.6	141.3	150.3
1878.....	140.6	100.5	90.9	109.1	.....	150.0	171.4	152.6	140.4	150.9
1879.....	125.4	100.5	90.9	109.1	.....	150.0	171.4	171.4	131.7	136.6
1880.....	137.3	100.5	90.9	109.1	.....	150.0	142.9	152.6	132.6	149.7
1881.....	149.8	99.5	90.9	100.0	.....	150.0	178.9	171.4	132.2	158.9
1882.....	148.5	109.0	90.9	124.0	.....	150.0	212.0	171.4	134.8	161.1
1883.....	157.1	118.5	90.9	118.2	.....	150.0	205.7	167.4	137.0	166.5
1884.....	158.4	118.5	90.9	118.2	.....	150.0	205.7	171.4	143.0	166.9
1885.....	151.8	108.5	86.4	127.3	.....	125.0	205.7	154.3	143.9	167.4
1886.....	142.6	107.9	86.4	115.3	.....	125.0	192.6	148.6	144.8	154.3
1887.....	159.4	134.4	90.9	127.3	.....	140.0	205.7	160.0	155.2	169.7
1888.....	158.4	128.0	90.9	118.2	.....	140.0	197.1	161.1	162.6	169.7
1889.....	158.4	124.3	90.9	127.3	.....	140.0	201.1	168.6	164.8	171.4
1890.....	156.8	127.0	90.9	121.1	.....	140.0	205.7	160.6	166.1	170.9
1891.....	156.8	127.0	90.9	115.3	.....	140.0	205.7	164.0	165.2	165.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	73. Black- smiths, helpers.	74. Black- smiths, helpers.	54. Boiler- makers.	55. Boiler- makers.	57. Boiler- makers.	68. Boiler- makers.	68. Boiler- makers, appren- tices.	54. Boiler- makers, helpers.	55. Boiler- makers, helpers.	68. Boiler- makers, helpers.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....						96.3				104.2
1845.....						93.0				104.2
1846.....						90.5				95.8
1847.....						97.5	100.0			98.8
1848.....						100.0	110.7			95.8
1849.....		71.4				109.5	133.3			105.4
1850.....		71.4				106.6	122.7			104.2
1851.....		71.4				105.8	132.0			100.6
1852.....		71.4				116.1	137.3			104.2
1853.....		71.4	105.9							119.0
1854.....		78.6	91.8	91.6		122.3	129.3	94.3	99.5	104.2
1855.....	100.0	92.9	113.0	89.7		128.1	136.0	102.6	103.5	103.6
1856.....	100.0	100.0	104.2	98.1	86.1	126.4	132.0	99.6	104.5	105.4
1857.....	100.0	100.0	108.2	106.4	93.3	130.6	142.7	101.3	105.5	110.7
1858.....	100.0	100.0	104.2	103.2	103.8			90.4	101.5	119.0
1859.....	100.0	100.0	101.4	100.0	95.9			97.8	100.0	
1860.....	100.0	100.0	100.0		100.0	100.0	100.0	100.0		100.0
1861.....	100.0	107.1	101.1		119.9			108.7		
1862.....	100.0	107.1	98.9	107.7	88.0	126.9	133.3	108.7	114.4	108.9
1863.....	112.5	114.3	120.1	121.2	86.6	115.7	100.0	99.6	116.9	114.3
1864.....	125.0	114.3	127.1	137.6	107.0	152.1	112.0	120.9	121.4	98.2
1865.....	166.5	121.4	141.2	172.3	136.0	172.7	150.7	145.2	144.3	107.1
1866.....	166.5	121.4	136.4	173.3	138.8	174.0		152.2	149.8	107.7
1867.....	166.5	121.4	142.9	178.1	130.5	170.7		157.8	149.8	133.9
1868.....	166.5	121.4	129.9	171.1	137.4	170.2	197.3	113.9	133.3	123.8
1869.....	166.5	114.3	141.2	174.0	125.4	178.9	213.3	130.4	150.7	116.1
1870.....	166.5	114.3	137.0	176.8	112.7	181.8	213.3	158.7	174.1	133.9
1871.....	150.0	107.1	139.0	158.8	115.3	178.1		152.2	158.7	126.8
1872.....	150.0	114.3	137.6	160.1	118.9	182.2		152.2	171.1	124.4
1873.....	160.0	117.9	137.0	175.6	151.8	188.4			144.3	136.9
1874.....	170.0	110.7	151.7	159.8	151.8	178.5			174.1	95.2
1875.....	160.0	100.0	150.6	165.0	127.8	186.8				114.9
1876.....	140.0	92.9	141.2	161.1	137.9	161.2			131.8	119.0
1877.....	130.0	92.9	155.4	137.9	112.0	151.2	186.7	152.2	130.8	132.1
1878.....	130.0	78.6	143.8	144.7	112.0	152.9	176.0	134.3	149.3	136.9
1879.....	130.0	78.6	141.2	119.0	112.0	144.2	160.0	130.4	124.4	147.0
1880.....	120.0	78.6	169.5	126.7	107.9	146.0	173.3	108.7	117.9	142.9
1881.....	130.0	92.9	141.2	131.2	136.0	148.8	169.3	119.6	144.3	133.9
1882.....	140.0	92.9	136.4	155.0	136.0	169.0	173.3	126.1	146.8	141.1
1883.....	140.0	92.9	141.2	159.2	139.8	166.1	200.0	133.9	141.3	136.9
1884.....	140.0	92.9	127.1	161.4	139.8	169.4	186.7	130.4	146.8	151.8
1885.....	130.0	92.9	120.1	163.7	139.8	156.2	186.7	152.2	139.3	148.8
1886.....	130.0	78.6	141.2	157.6	139.8	162.8	186.7	136.5	129.4	114.9
1887.....	130.0	92.9	141.2	156.3	139.8	165.7		133.0	132.8	107.1
1888.....	140.0	92.9	136.4	157.6	136.0	171.9		136.1	132.8	129.2
1889.....	140.0	92.9	125.7	162.1	136.0	168.6	160.0	130.4	152.2	139.9
1890.....	140.0	92.9	122.9	162.7	131.9	174.4	173.3	130.4	151.2	158.3
1891.....	140.0	92.9	131.4	165.3	135.0	180.6	206.7	152.2	167.7	163.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	72. Boiler tenders.	71. Carpen- ters.	72. Carpen- ters.	72. Carpen- ters' helpers.	72. Coal wheel- ers.	66. Core- makers.	73. Core- makers.	74. Core- makers.	66. Cupola- men.	71. Draughts- men.
1840.....			76.9							
1841.....										
1842.....			76.9							
1843.....			76.9	100.0	83.8					
1844.....			76.9							
1845.....			71.1							
1846.....			74.5		97.8					
1847.....		84.9			111.7					
1848.....		88.8	82.2		125.7					80.8
1849.....	171.4	90.3		76.7	125.7					80.8
1850.....	100.0	90.6	76.9	69.3	125.7					80.8
1851.....		92.7	78.8	88.3	111.7					84.8
1852.....	100.0	92.7	74.5							90.3
1853.....		93.0	75.1	107.4	103.4					90.3
1854.....		99.0	79.4		103.9			91.7		98.2
1855.....	114.3	99.2	79.4	107.4	103.9			91.7		100.9
1856.....	100.0	100.5	76.9	107.4	119.0		100.0	91.7		100.9
1857.....		101.6	96.3	114.7	103.9		100.0	91.7		94.2
1858.....	96.6	94.3	84.6		111.7		100.0	100.0		103.9
1859.....	100.0	94.0	100.0	100.0	111.7	100.0	100.0	100.0	100.0	92.4
1860.....		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....		101.0	92.3		102.8	100.0	100.0	100.0	100.0	98.2
1862.....		102.9		148.5	103.9	100.0	100.0	116.7	102.8	100.0
1863.....	93.1	108.4	123.1	171.2	125.7	100.0	100.0	116.7	110.4	105.5
1864.....	150.3	129.5	126.2	107.4	164.2	100.0	124.7	116.7	114.2	127.3
1865.....		136.3	134.5	214.7	198.3	120.0	149.8	141.7	136.0	155.0
1866.....	173.1	140.5	129.5	204.3	197.2	120.0	149.8	166.7	134.1	171.4
1867.....		150.1	148.3	168.7	179.3	120.0	149.8	166.7	134.1	187.8
1868.....	177.1	161.6	150.5	184.0	176.5	133.2	149.8	166.7	152.6	188.0
1869.....	180.0	161.9	153.8	184.0	178.2	133.2	149.8	166.7	165.9	213.4
1870.....	171.4	167.6	153.8		191.1	133.2	149.8	166.7	165.9	220.1
1871.....	180.0	169.7	153.8		178.2	133.2	119.9	166.7	165.9	223.3
1872.....	180.0	173.1	158.2		176.5	133.2	104.9	150.0	165.9	223.3
1873.....	194.3	171.3	157.2	184.0	177.1	143.6	112.4	150.0	170.1	192.4
1874.....	177.1	156.7	144.9	153.4	177.1	143.6	119.9		181.5	201.6
1875.....		156.7	136.9	168.7	156.4	146.8	104.9		181.5	201.6
1876.....	171.4	141.0	161.5	218.4	142.5		104.9		161.6	180.1
1877.....	149.1	132.9	161.5	234.4	143.0		97.4		161.6	166.7
1878.....	172.0	118.5	153.8	214.7	141.9		97.4	141.7	161.6	179.2
1879.....		116.4	153.8	201.8	126.3	120.0	97.4	141.7	161.6	179.2
1880.....	167.4	114.9	125.5	198.8	156.4	120.0	97.4	133.3	146.0	179.2
1881.....	190.3	123.0	133.8	185.9	172.6	120.0	104.9	150.0	161.6	200.2
1882.....	190.3	127.4	133.2	174.2	178.8	120.0	112.4	150.0	157.8	238.3
1883.....	197.1	133.7	135.1	215.3	164.2	120.0	127.3	166.7	152.6	238.3
1884.....	189.1	130.8	137.2	203.1	150.8	120.0	127.3	166.7	152.6	238.3
1885.....	200.0	122.5	131.1	206.7	138.0	120.0	112.4	141.7	157.8	189.1
1886.....	200.0	117.8	138.5	204.3	139.1	100.0	112.4	141.7	137.9	180.8
1887.....	200.0	133.9	139.7	184.0	162.6	120.0	112.4	141.7	151.7	212.2
1888.....	200.0	136.6	140.6	214.7	158.1	120.0	112.4	141.7	160.7	230.7
1889.....	200.0	138.1	139.1	165.6	158.1	120.0	127.3	141.7	155.9	233.5
1890.....	200.0	143.1	132.9	214.7	156.4	120.0	127.3	141.7	156.4	253.6
1891.....	200.0	137.6	138.2		162.6	120.0	127.3	141.7	156.4	237.6

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	74. Draughts- men.	54. Engi- neers.	56. Engi- neers.	62. Engi- neers.	66. Engi- neers.	74. Engi- neers.	68. Fore- men, black- smiths.	71. Fore- men, black- smiths.	54. Fore- men, boiler- makers.	68 Fore- men, boiler- makers.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....										46.4
1845.....										46.4
1846.....										53.6
1847.....								83.3		64.3
1848.....								83.3		64.3
1849.....								83.3		64.3
1850.....						65.0	66.7	83.3		71.4
1851.....						65.0	66.7	83.3		71.4
1852.....						65.0	66.7	91.7		71.4
1853.....			100.0	85.5		65.0		91.7		
1854.....		70.7	114.2	85.5		65.0	83.3	91.7	75.0	85.7
1855.....		83.3	142.9	85.5		65.0	91.7	100.0	75.0	100.0
1856.....		83.3	142.9	100.0		75.0	100.0	91.7	83.3	100.0
1857.....		83.3	142.9	100.0		75.0	100.0	100.0	83.3	100.0
1858.....		91.7	142.9	100.0		85.0		100.0	87.5	
1859.....		91.7	142.9	92.3	100.0	85.0		100.0	87.5	
1860.....		100.0	100.0	100.0	100.0	100.0		100.0	100.0	
1861.....	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	
1862.....	100.0	100.0	107.3	100.0	100.0	100.0	66.7	100.0	100.0	57.1
1863.....	100.0	100.0	128.8	100.0	100.0	100.0	66.7	111.2	100.0	71.4
1864.....	108.0	116.7	142.9	106.8	116.5	110.0	116.7	133.3	133.3	71.4
1865.....	108.0	166.7	171.7	128.2	150.0	125.0	150.0	166.7	200.0	92.9
1866.....	108.0	166.7	171.7	149.6	150.0	125.0		166.7	133.3	95.3
1867.....	108.0	166.7	193.1	149.6	150.0	125.0	108.3	194.5	166.7	95.3
1868.....	120.0	166.7	193.1	149.6	166.5	125.0	108.3	194.5	166.7	117.9
1869.....	120.0	166.7	214.6	149.6	166.5	125.0	108.3	194.5	166.7	117.9
1870.....	120.0	183.3	236.1	170.9	166.5	125.0	108.3	194.5	183.3	
1871.....	120.0	178.0	257.5	170.9	166.5	110.0	116.7	194.5	183.3	95.1
1872.....	120.0	178.0	257.5	170.9	166.5	117.5	126.7	194.5	166.7	117.9
1873.....	120.0	178.0	257.5	170.9	200.0	125.0	126.7	180.5	166.7	117.9
1874.....	120.0	178.0	257.5	170.9	200.0	125.0	133.3	180.5	133.3	117.9
1875.....	120.0	178.0	257.5	170.9	200.0	110.0	133.3	180.5	116.7	117.9
1876.....	140.0		257.5		200.0	100.0	133.3	152.8	108.3	117.9
1877.....	140.0		236.1		200.0	110.0	133.3	138.8	133.3	117.9
1878.....	120.0		236.1		200.0	100.0	133.3	138.8	133.3	117.9
1879.....	120.0		214.6	98.3	166.5	100.0	125.0	138.8	133.3	117.9
1880.....	120.0	133.3	214.6	98.3	166.5	100.0	125.0	138.8		117.9
1881.....	152.0	133.3	214.6	98.3	166.5	110.0	125.0	166.7	133.3	117.9
1882.....	152.0	150.0	214.6	98.3	166.5	110.0	125.0	166.7		117.9
1883.....	152.0	150.0	236.1	98.3	166.5	110.0	125.0	166.7	100.0	117.9
1884.....	152.0	133.3	236.1	98.3	166.5	125.0	100.0	166.7	100.0	95.3
1885.....	152.0	133.3	236.1	102.6	166.5	110.0	100.0	150.0	108.3	95.3
1886.....	152.0	133.3	236.1	102.6	166.5	125.0	100.0	150.0	108.3	95.3
1887.....	168.0	133.3	236.1	106.8	166.5	125.0	116.7	166.7	116.7	95.3
1888.....	168.0	133.3	236.1	106.8	166.5	135.0	100.0	166.7	116.7	95.3
1889.....	168.0	133.3	236.1	106.8	166.5	135.0	100.0	180.5	116.7	95.3
1890.....	168.0	133.3	236.1	106.8	225.0	135.0	108.3	180.5	133.3	95.3
1891.....	168.0	150.0	257.5	106.8	225.0	135.0	108.3	194.5	133.3	117.9

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	58. Fore- men, fur- nace- men.	54. Fore- men, machin- ists.	56. Fore- men, machin- ists.	58. Fore- men, machin- ists.	65. Fore- men, machin- ists.	68. Fore- men, machin- ists.	54. Fore- men, mould- ers.	56. Fore- men, mould- ers.	58. Fur- nace- men.	57. Labor- ers.
1840.....										
1841.....										
1842.....										
1843.....						62.6				
1844.....										
1845.....						62.6				
1846.....						62.6				
1847.....						70.4				
1848.....						70.4				
1849.....						70.4				
1850.....	80.5			93.3		58.7			90.3	
1851.....	83.3			93.3		58.7			85.5	
1852.....	83.3			93.3		62.6			90.0	
1853.....	83.3	100.0	53.3	93.3				76.9	93.4	
1854.....	91.7	100.0	52.2	95.7		78.2	87.0	100.4	92.0	
1855.....	91.7	100.0	57.4	95.1		62.6		100.4	86.5	
1856.....	100.0	100.0	62.6	103.0	100.0			100.4	88.6	108.7
1857.....	100.0	100.0	67.8	106.2	100.0	100.0		100.4	86.5	108.7
1858.....	100.0	100.0	80.1	97.9				100.4	95.8	108.7
1859.....	100.0	100.0	80.1	99.4	100.0			100.4	93.8	108.7
1860.....	100.0	100.0	100.0	100.0			100.0	100.0	100.0	100.0
1861.....	100.0	100.0	100.0	104.1			104.3	100.0	99.7	100.0
1862.....	100.0	100.0	100.0	105.8			104.3	120.5	90.3	81.5
1863.....	100.0	100.0		97.0	100.0		104.3	120.5	100.3	108.7
1864.....	100.0	124.9		116.6	100.0	78.2	121.7	128.3	96.5	133.7
1865.....	116.7	166.6		127.2	138.8	101.7	156.5	192.4	92.4	162.0
1866.....	100.0	97.8	100.6	127.2	138.8	125.2	139.1	192.4	102.1	176.1
1867.....	116.7	97.8	100.1	145.1	138.8	125.2	156.5	256.6	114.2	173.9
1868.....	116.7		116.7	153.4	138.8	125.2		256.6	110.7	173.9
1869.....	116.7		116.7	150.7	138.8	125.2	173.9	256.6	121.1	171.2
1870.....	116.7	91.3	116.7	144.2	138.8	156.5	173.9	256.6	117.6	171.2
1871.....	116.7	91.3	116.7	144.0	138.8	156.5	156.5	256.6	121.1	170.1
1872.....	116.7	91.3	116.7	154.3	138.8	187.8	156.5	256.6	117.6	167.9
1873.....	105.5	104.3	120.0	148.3	138.8	187.8	156.5	256.6	119.4	167.9
1874.....	108.3	104.3	110.0	154.5	138.8	187.8	156.5	256.6	110.0	168.5
1875.....	116.7	104.3	110.0	155.8	138.8	187.8	156.5	256.6	111.1	144.6
1876.....	100.0	91.3	105.1	167.2	166.7	187.8	156.5	256.6	126.0	138.0
1877.....	100.0	104.3	94.1	165.5	166.7	187.8	139.1	230.9	123.2	119.0
1878.....	100.0		84.0	165.5	166.7	187.8	139.1	207.8	125.6	116.3
1879.....	100.0		79.2	171.5	138.8	170.1	121.7	184.7	126.0	112.5
1880.....			79.2		138.8	170.1	121.7	184.7	126.0	110.9
1881.....	100.0		96.0	178.9	138.8	170.1	130.4	192.4	121.8	134.2
1882.....			100.0	160.1	138.8	170.1	139.1	207.8	119.4	133.7
1883.....		84.7	100.0	148.5	138.8	170.1	104.3	230.9	121.1	133.7
1884.....		84.7	100.0	147.6	133.3	170.1	121.7	230.9	123.9	133.7
1885.....		84.7	100.0	139.9	133.3		121.7	207.8	121.1	133.7
1886.....		84.7	100.0		133.3	129.1	121.7	207.8	120.1	132.6
1887.....		84.7	100.0	149.3	133.3	129.1	130.4	207.8	122.1	137.5
1888.....		84.7	100.0	149.3	138.8	129.1	130.4	207.8		136.4
1889.....	100.0	84.7	100.0		138.8	129.1	130.4	207.8		138.0
1890.....		84.7	100.0	166.4	138.8	129.1	130.4	207.8		138.0
1891.....		84.7	100.0	149.3	138.8	129.1	130.4	192.4	119.4	137.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	58. Labor- ers.	59. Labor- ers.	60. Labor- ers.	61. Labor- ers.	62. Labor- ers.	66. Labor- ers.	67. Labor- ers.	71. Labor- ers.	73. Labor- ers.	74. Labor- ers.	54. Machin- ists.
1840											
1841											
1842											
1843											
1844											
1845			52.0								
1846			52.0	88.9	58.8		79.8				
1847			56.0	88.9	71.5		83.7	100.0			
1848			56.0	88.9	76.8		87.1	100.0			
1849			56.0	88.9	80.7		85.4	100.0		80.0	
1850	101.7		60.0	88.9	78.9		87.1	100.0		80.0	
1851	101.7		60.0	88.9	79.4		89.3	100.0		100.0	
1852	100.0		60.0	88.9	79.4		90.4	100.0		100.0	
1853	103.9	88.9	60.0	100.0	80.7		91.0	103.0		100.0	113.3
1854	100.0	94.4	60.0	100.0	82.0		91.6	112.5	100.0	100.0	100.6
1855	98.9	100.0	60.0	111.1			97.2	100.0	100.0	100.0	97.5
1856	101.1	100.0	60.0	111.1	87.7		97.8	103.0	100.0	100.0	100.6
1857	102.8	100.0	80.0	88.9	100.0		103.9	102.0	100.0	100.0	100.6
1858	97.8	100.0	80.0	88.9	98.7		103.4	103.0	100.0	100.0	100.6
1859	97.8	100.0	80.0	100.0	91.7	100.0	99.4	103.0	100.0	100.0	92.9
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	101.1	100.0	120.0	111.1	87.7	100.0	99.4	100.0	100.0	110.0	102.0
1862	99.4	100.0	120.0	111.1	87.7	97.0	96.6	101.5	100.0	110.0	97.2
1863	104.5	100.0	140.0	118.2	100.0	100.6	103.4	111.0	105.5	140.0	96.0
1864	109.6	100.0	140.0	133.3	117.1	125.1	134.3	129.5	123.0	140.0	110.8
1865	142.7	144.4	128.0	133.3	80.7	165.9	174.2	150.0	158.5	150.0	148.7
1866	152.8	166.7	160.0	122.2	121.5	167.1	169.7	152.0	158.5	150.0	144.8
1867	154.5	155.6	140.0	144.4	129.4	164.7	172.5	152.0	158.5	150.0	160.6
1868	167.4	155.6	140.0	144.4	116.7	179.6	172.5	152.5	154.0	150.0	158.6
1869	151.1	155.6	144.0	155.6	116.7	179.6	191.0	157.5	154.5	150.0	159.5
1870	159.6	155.6	140.0	155.6	138.6	179.6	192.1	164.0	154.0	130.0	152.1
1871	157.3	155.6	160.0	155.6	129.4	179.6	194.9	167.0	130.0	130.0	155.8
1872	155.1	155.6	144.0	155.6	127.6	183.2	193.3	167.5	130.0	130.0	148.4
1873	156.7	177.8	140.0	155.6	121.5	207.2	196.6	166.5	133.5	130.0	160.1
1874	148.9	177.8	140.0	155.6	127.6	207.2	199.4	167.5	140.0	130.0	156.4
1875	148.9	166.7	112.0	146.7	131.6	206.0	196.6	158.0	130.0	130.0	145.6
1876	144.9	200.0	108.0	134.7		140.7	191.6	157.0	130.0	120.0	144.8
1877	144.9	211.1	89.6	134.7		152.7	174.7	144.5	120.0	120.0	142.5
1878	137.1	211.1	89.6	134.7		152.7	174.7	139.5	120.0	100.0	130.0
1879	139.3	194.4	88.0	133.3	104.4	149.7	174.7	135.0	120.0	100.0	134.0
1880	120.8	194.4	92.0	122.2	103.5	154.5	154.5	142.0	120.0	130.0	132.0
1881	118.5	222.2	100.0	126.7	108.3	152.7	160.1	151.5	120.0	120.0	134.8
1882	121.9	222.2	100.0	139.6	108.8	152.7	165.2	158.5	130.0	120.0	134.0
1883	123.6	222.2		136.4	106.1	179.6	176.4	170.5	140.0	120.0	136.5
1884	121.9	222.2	112.0	137.3	105.3	155.7	195.5	166.0	140.0	120.0	140.8
1885	131.5	222.2	104.0	141.8	108.3	141.9	176.4	154.0	130.0	110.0	143.3
1886	129.8	166.7	96.0	141.8	111.8	151.5	175.8	153.0	120.0	110.0	135.7
1887	124.7	166.7	104.0	140.9	114.0	179.6	186.5	172.5	120.0	110.0	138.5
1888	130.3	166.7	100.0	137.3	114.0	177.8	186.5	170.5	120.0	120.0	140.8
1889	133.1	166.7	100.0	135.6	124.1	177.8	178.1	170.5	130.0	120.0	141.4
1890	133.1	166.7	100.0	135.6	109.6	179.6	177.0	167.0	130.0	120.0	142.5
1891	139.3	166.7	100.0	135.6	109.6	179.6	177.5	171.5	130.0	120.0	142.5

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	55. Ma- chin- ists.	56. Ma- chin- ists.	57. Ma- chin- ists.	58. Ma- chin- ists.	59. Ma- chin- ists.	60. Ma- chin- ists.	61. Ma- chin- ists.	62. Ma- chin- ists.	65. Ma- chin- ists.	66. Ma- chin- ists.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....							84.1			
1845.....						90.1	84.1	84.1		
1846.....						90.1	91.7	86.5		
1847.....						90.1	91.7	92.2		
1848.....						90.1	107.0	90.9		
1849.....						90.1	107.0	93.9		
1850.....				94.2		93.7	92.7	95.6		
1851.....				93.6		92.5	92.7	95.6		
1852.....				93.0		85.9	92.7	104.4		
1853.....		97.7		93.9	100.0	85.9	90.5	94.9		
1854.....	106.4	97.1		96.2	110.0	85.9	95.1	101.0		
1855.....	100.9	110.2		99.1	100.0	85.9	91.7	98.0		
1856.....	102.4	111.4	97.3	97.1	100.0	78.1	93.6	100.3	84.8	
1857.....	108.5	101.5	105.2	99.1	106.7	84.1	94.2	100.0	94.4	
1858.....	107.3	104.7	101.8	94.5	106.7	100.0	93.3	95.6	86.7	
1859.....	100.0	102.0	101.8	97.4	100.0	100.0	96.9	90.5	100.0	100.0
1860.....		100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
1861.....		97.7	102.7	99.7	100.0	108.1	104.0	102.0		100.0
1862.....	107.9	99.1	98.5	100.0	100.0	132.1	108.0	105.1		100.0
1863.....	122.2	106.1	111.6	102.9	100.0	180.2	107.6	109.8	91.7	137.3
1864.....	141.3	119.2	124.9	119.8	120.0	165.2	117.1	116.6	100.0	133.3
1865.....	170.5	127.4	163.8	136.0	150.0	180.2	130.0	134.1	117.3	163.1
1866.....	173.3	143.4	168.7	140.7	156.7	180.2	142.8	144.3	128.3	163.1
1867.....	180.2	147.5	169.3	148.0	166.7	180.2	148.6	135.1	128.3	163.1
1868.....	182.7	146.4	171.1	148.3	166.7	180.2	148.6	128.7	127.2	200.0
1869.....	174.5	145.5	172.3	145.9	166.7	180.2	151.7	154.1	128.3	200.0
1870.....	179.0	166.5	155.3	153.5	166.7	180.2	146.5	163.2	128.3	200.0
1871.....	177.8	169.4	160.5	149.7	166.7	180.2	149.2	153.7	127.2	200.0
1872.....		162.7	159.0	155.2	166.7	180.2	149.8	142.2	126.9	200.0
1873.....	170.8	170.3	161.1	157.0	156.7	180.2	148.3	136.1	126.9	177.8
1874.....		185.4	161.4	143.3	156.7	180.2	150.8	143.6	130.1	222.2
1875.....		183.7	155.3	147.1	156.7	144.1	151.7	129.4	132.8	222.2
1876.....		157.1	152.6	144.5	150.0	144.1	148.3	67.6	132.8	222.2
1877.....		137.0	140.7	132.6	150.0	115.3	138.2		131.5	222.2
1878.....		119.8	140.7	136.6	150.0	115.3	135.2		131.5	222.2
1879.....		119.2	141.0	137.8	133.3	115.3	127.2	106.1	129.9	222.2
1880.....		125.1	145.0	126.7	133.3	130.0	127.8	106.4	131.5	188.9
1881.....		128.9	159.9	135.2	166.7	135.1	135.8	107.1	129.3	188.9
1882.....		135.9	160.8	140.7	166.7	144.1	144.0	108.1	125.6	222.2
1883.....		146.4	162.0	148.5	150.0		144.6	108.1	138.1	222.2
1884.....		145.8	163.8	142.7	150.0	141.1	145.0	112.8	138.4	222.2
1885.....		136.4	155.6	144.2	166.7	144.1	143.7	115.2	136.0	222.2
1886.....		136.2	155.0	138.1	150.0	132.1	144.3	112.8	133.3	222.2
1887.....		132.9	154.7	142.2	150.0	135.1	144.3	121.3	137.1	200.0
1888.....		133.2	153.8	139.0	150.0	135.1	145.9	105.7	145.9	222.2
1889.....		124.5	155.9	143.6	150.0	135.1	149.2	109.8	145.9	222.2
1890.....		141.1	155.0	139.5	150.0	135.1	150.8	115.9	145.9	222.2
1891.....		137.9	155.6	141.3	150.0	135.1	153.2	118.9	145.9	222.2

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Years.	67. Machin- ists.	68. Machin- ists.	69. Machin- ists.	70. Machin- ists.	72. Machin- ists.	73. Machin- ists.	74. Machin- ists.	56. Machin- ists' appren- tices.	62. Machin- ists' appren- tices.	67. Machin- ists' appren- tices.
1840.....					100.0					
1841.....										
1842.....					109.1					
1843.....		90.9			95.6					
1844.....		90.9			92.4					
1845.....		93.8			108.4				112.4	
1846.....	89.9	94.2		83.4	104.0				127.8	
1847.....	88.7	100.7		90.5					123.7	
1848.....	87.4	100.0		97.6	110.9				110.3	
1849.....	95.3	106.2		96.1	100.0		79.7		108.2	50.0
1850.....	97.2	102.2		92.1			78.8		118.6	83.3
1851.....	99.7	103.3	107.4	99.5			78.8		103.1	72.7
1852.....	96.9	106.2	105.0	100.0	100.0		78.2		115.5	66.7
1853.....	95.9		117.8	96.6	100.0		76.9		103.1	80.0
1854.....	106.3	113.8	110.7	96.1	109.1	93.8	80.9	122.0	107.2	66.7
1855.....	106.0	118.5	132.9	92.1	109.1	92.4	94.2	126.0	106.2	66.7
1856.....	111.9	125.5	135.2	92.1	102.9	93.0	93.9	122.8	114.4	83.3
1857.....	111.3	119.6	134.2	94.2	106.2	95.9	93.3	142.3	124.7	100.0
1858.....	108.2	109.1	114.1	95.5	109.1	92.4	99.1	97.6	111.3	
1859.....	99.4		96.6	89.5	109.1	103.2	100.3	130.1	129.9	
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1861.....	102.2		98.7	98.7	102.2	102.1	100.9	100.8	99.0	
1862.....	95.6	107.3	103.4	96.6	102.9	103.2	112.4	107.3	134.0	
1863.....	101.3	117.1	115.1	103.9		102.9	112.1	95.9	113.4	44.0
1864.....	115.4	130.5	234.9	125.0		115.5	124.2	103.3	114.4	58.0
1865.....	153.1	158.2	156.7	154.7	181.5	161.9	137.9	129.3	166.0	
1866.....	152.5	156.4	168.1	162.1	174.2	173.3	157.6	144.7	155.7	116.7
1867.....	157.2	176.4	173.8	177.6	172.7	167.2	163.9	149.6	163.9	133.3
1868.....	164.2	186.9	176.2	165.0	181.8	168.0	163.6	151.2	168.0	66.7
1869.....	157.2	172.4	176.5	166.6	167.3	170.1	159.1	171.5	150.5	100.7
1870.....	157.2	172.0	165.1	176.8		170.7	159.1	174.8	138.1	89.3
1871.....	154.7	174.5	166.8	168.4	172.4	164.5	144.8	155.3	142.3	133.3
1872.....	159.1	171.6		174.2	176.4	166.0	141.5	154.5	141.2	133.3
1873.....	152.2	170.5	152.7	176.3	191.6	159.5	157.0	154.5		66.7
1874.....	164.5	164.0	159.4	171.1	174.9	159.8	157.3		127.8	100.0
1875.....	165.7	173.5		167.4	160.0	141.3	140.9	146.3	139.2	66.7
1876.....	158.8	156.4		156.1	156.4	128.4	127.6	162.6	160.8	133.3
1877.....	137.4	145.1	146.0	157.9	154.9	123.5	129.7	170.7		
1878.....	134.9	143.6	125.5	149.7	153.5	114.1	127.6	178.9		
1879.....	133.0	155.3	128.2	151.3		125.8	127.6	162.6		
1880.....	129.6	146.2	132.6	140.3	153.1	123.8	127.9	189.4		
1881.....	140.6	153.5	149.0	151.8	160.4	135.5	136.4	146.3		70.0
1882.....	154.4	163.6	160.7	141.1	170.2	148.4	138.5	142.3		78.0
1883.....	151.9	168.7	163.4	143.4	171.6	146.6	142.4	119.5		101.3
1884.....	157.2	167.6	167.4	146.3	170.2	147.5	141.8	140.7		106.0
1885.....	149.4	153.1	171.8	136.6	165.1	138.1	129.7	162.6		133.3
1886.....	150.6	136.0	153.7	145.3	156.4	138.1	139.4	158.5		
1887.....	153.1	143.3	154.4	136.8	170.2	138.4	144.5	130.1		
1888.....	154.7	148.7	156.4	137.1	167.6	138.1	157.6	156.9		53.3
1889.....	155.3	152.0	162.1	140.8	169.5	143.4	162.7	170.7		75.3
1890.....	156.3	150.9	163.8	141.6	173.8	143.7	175.8	154.5		42.0
1891.....	159.4	151.3	168.5	139.2	166.5	143.4	175.2	122.0		64.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	68. Machin- ists' appren- tices.	69. Machin- ists' appren- tices.	54. Machin- ists' help- ers.	55. Machin- ists' help- ers.	56. Machin- ists' help- ers.	58. Machin- ists' help- ers.	67. Machin- ists' help- ers.	68. Machin- ists' help- ers.	69. Machin- ists' help- ers.	72. Masons.
1840.....										60.0
1841.....										60.0
1842.....										
1843.....								82.9		
1844.....	94.5							87.3		
1845.....	86.2							82.9		60.0
1846.....	86.2							96.7		60.0
1847.....	96.3							82.9		70.0
1848.....	96.3							82.9		60.0
1849.....	87.2							82.9		
1850.....	88.1					100.8		78.5		64.0
1851.....	108.3	92.4				98.8		80.7	67.2	60.0
1852.....	91.7	88.9				98.4	68.5	91.2	80.0	60.0
1853.....		58.5			104.3	98.4	72.1		84.0	80.0
1854.....	91.7	117.0	107.8	87.7	100.0	97.7	82.2	104.4	80.0	80.0
1855.....	91.7	95.3	97.0	86.8	112.1	98.1	85.4	108.3	80.0	90.0
1856.....	100.0		97.0	96.0	112.1	101.6	92.2	111.0	80.0	76.0
1857.....	97.2	102.3	97.0	96.9	112.1	98.8	106.4	117.7	80.0	72.6
1858.....			103.0	88.1	101.4	98.8	101.4	110.5		85.0
1859.....		67.8	111.2	100.0	100.0	98.0	97.7		88.4	76.6
1860.....	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
1861.....		86.0	126.3		105.3	99.6	100.0		98.0	100.0
1862.....	89.0	99.4	109.1	98.7	106.3	99.6	95.4		101.6	86.6
1863.....	101.8	89.5	125.4	110.1	108.2	100.0	93.6		80.0	81.6
1864.....	89.9		128.9	115.4	126.9	99.2	125.6			92.2
1865.....	115.6	85.4	133.6	126.9	141.3	111.7	146.1		98.4	104.4
1866.....	122.0	94.2	123.3	129.5	141.8	120.7	139.3		110.0	109.2
1867.....	149.5	78.4	140.1	138.8	149.0	118.8	138.8	110.5	100.0	108.8
1868.....	160.6	108.8	147.0	148.5	148.1	119.5	146.1	132.6		108.8
1869.....	133.0	113.5	141.8	144.5	159.1	120.3	148.4	132.6	100.0	108.8
1870.....	118.3	98.8	130.2	152.9	165.4	119.1	142.9	127.1	101.6	116.6
1871.....	130.3	71.3	122.0	157.3	165.4	121.9	130.6	143.6	102.4	125.6
1872.....	107.3				164.9	118.8	142.9	121.5		125.6
1873.....	135.8	99.4	93.5		172.6	117.2	159.8	165.7		127.2
1874.....	133.0	77.2	105.6		176.0	121.1	146.1		130.0	110.0
1875.....	173.4		136.6		174.0	117.2	146.1			105.0
1876.....	161.5		140.1		155.3	136.3	146.1			105.0
1877.....	119.3	72.5	122.0		139.9	148.4	155.3	163.0	106.8	103.4
1878.....	106.4	66.1	142.2		125.0	125.0	144.7	165.7	104.8	105.0
1879.....	128.4	87.1	116.8		125.0	127.7	138.4	154.7	94.8	97.0
1880.....	155.0	86.5	115.5		129.8	129.3	127.9	139.2	102.4	100.0
1881.....	123.9	98.2	122.0		129.8	125.4	142.0	139.8	105.2	108.0
1882.....	96.3	112.3	114.7		127.9	125.0	130.1	154.7	115.2	117.0
1883.....	113.8	83.0	114.2		133.2	127.3	132.4	160.2	118.8	119.4
1884.....	131.2	92.4	119.0		139.4	127.3	153.4	165.7	118.8	120.4
1885.....	138.5	107.0	124.1		135.1	127.0	147.0	149.2	120.0	125.0
1886.....	125.7	105.8	133.6		138.5	128.5	141.6	138.1	108.0	120.0
1887.....	116.5	93.0	140.1		140.4	130.5	140.6	138.1	114.8	135.0
1888.....	127.5	87.7	129.3		138.9	126.6	142.9	143.6	116.0	126.6
1889.....	130.3	95.3	102.6		136.5	127.3	144.7	151.9	118.8	135.0
1890.....	134.9	103.5	109.9		130.8	123.8	140.6	154.7	122.0	120.0
1891.....	118.3	138.6	103.9		141.3	126.2	137.0	143.6	126.4	140.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	72. Masons' helpers.	74. Mill- wrights.	54. Mould- ers.	56. Mould- ers.	57. Mould- ers.	58. Mould- ers, iron.	67. Mould- ers.	68. Mould- ers.	71. Mould- ers.	73. Mould- ers.	74. Mould- ers.
1840	90.7										
1841	77.7										
1842											
1843								87.5			
1844								90.1			
1845	81.3							92.8			
1846	77.7						81.3	97.7			
1847	84.5						84.0	92.4	80.9		
1848	90.7						82.8	101.1	80.9		
1849							89.5	101.5	85.1		
1850	90.7					100.0	88.0	98.9	83.0		
1851	90.7	75.0				99.7	91.3	97.7	84.6		
1852	90.7	85.0				101.0	93.1	101.9	88.6		
1853	84.5	95.0		94.4		99.4	93.7		93.6		
1854	95.9	100.0	107.7	93.5		102.2	103.0	105.7	101.9	91.7	88.2
1855	93.3	100.0		105.9		103.2	100.0	108.0	96.3	97.9	88.2
1856	96.9	100.0		102.3	104.0	101.0	98.8	112.9	97.9	100.0	88.2
1857	86.5	100.0		104.6	98.9	101.9	100.6	119.8	102.7	101.8	88.2
1858	77.7	100.0		105.6	97.6	92.9	109.3	117.1	104.2	104.0	88.2
1859	86.5	100.0		103.9	100.8	101.6	100.9		103.2	105.5	88.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	123.1	101.6	103.5	102.2	101.5		101.6	96.9	117.6
1862	89.1	100.0	123.1	103.6	107.0	101.3	99.7	116.7	103.7	96.3	117.6
1863	108.8	100.0	119.1	105.2	103.5	105.4	103.0	117.1	106.9	96.9	129.4
1864	120.7	115.0	125.5	113.4	113.6	119.9	119.3	123.2	131.6	112.2	147.1
1865	148.2	150.0	152.0	144.8	134.8	140.7	140.7	149.4	163.7	132.4	176.5
1866	148.7	185.0	146.8	141.5	141.4	152.6	142.2	148.7	170.0	152.9	176.5
1867	153.9	185.0	157.5	142.5	140.4	156.4	145.2	151.0	171.9	152.9	176.5
1868	148.7	185.0	155.7	149.7	141.4	158.0	168.4	146.8	173.7	152.9	152.9
1869	148.7	165.0	164.9	151.0	142.8	154.8	173.2	154.0	173.7	152.9	152.9
1870	165.3	175.0	161.5	154.2	141.4	156.7	173.2	156.3	179.6	152.9	152.9
1871	148.7	175.0	158.5	166.0	149.5	156.1	180.7	156.3	179.6	143.4	152.9
1872	148.7	187.5	164.9	156.9	141.7	156.7	168.7	173.8	176.4	149.8	176.5
1873	162.2	175.0	159.4	165.0	142.5	155.4	175.6	160.1	174.5	157.2	176.5
1874	148.7	155.0	159.7	170.3	142.5	147.4	163.9	151.0	168.2	155.4	
1875	129.5	140.0	158.5	169.0	131.8	141.7	172.0	157.0	154.6	142.8	
1876	129.5	150.0	154.5	149.3	128.3	138.5	172.0	157.8	148.5	129.7	
1877	129.5	150.0	150.8	135.9	115.0	140.1	146.7	158.9	135.3	124.2	
1878	129.5	125.0	149.2	125.5	115.8	137.8	147.9	158.6	135.5	124.5	129.4
1879	103.6	125.0	135.4	123.5	116.3	140.1	147.9	153.6	134.0	125.4	129.4
1880	126.4	125.0	140.9	125.5	117.1	133.7	134.6	139.9	130.2	140.4	129.4
1881	129.0	125.0	138.5	130.4	130.5	135.3	134.6	146.8	139.3	144.6	141.2
1882	140.9	125.0	148.3	150.3	128.3	142.3	141.9	157.0	140.6	152.0	141.2
1883		140.0	150.8	152.6	129.7	143.3	160.2	160.5	155.4	151.7	141.2
1884	145.1	140.0	148.6	153.3	131.3	137.2	159.9	160.8	150.9	151.4	141.2
1885	151.3	125.0	148.6	142.8	132.1	135.9	151.8	154.0	148.5	142.8	123.5
1886	145.1	125.0	147.7	141.2	131.8	136.2	147.9	142.2	148.5	143.1	123.5
1887	158.5	125.0	152.6	140.5	133.4	138.8	155.4	143.7	162.6	146.8	147.1
1888	159.6	140.0	145.5	140.8	132.6	141.3	163.9	155.1	162.9	152.0	147.1
1889	159.6	140.0	148.3	143.8	131.8	134.6	163.3	158.2	160.7	152.6	147.1
1890		140.0	143.4	142.5	133.4	144.2	159.0	153.2	156.2	150.8	147.1
1891	159.6	140.0	149.5	143.5	131.3	146.5	158.7	154.8	164.7	150.8	147.1

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	56. Mould- ers' appren- tices.	67. Mould- ers' appren- tices.	68. Mould- ers' appren- tices.	54. Mould- ers' helpers.	56. Mould- ers' helpers.	67. Mould- ers' helpers.	68. Mould- ers' helpers.	57. Paint- ers.	54. Pattern makers.	55. Pattern makers.
1840.....										
1841.....										
1842.....										
1843.....			84.0				92.4			
1844.....			89.0				101.4			
1845.....			95.0				104.2			
1846.....		92.6	107.0				113.2			
1847.....		129.6	111.0				113.2			
1848.....		74.1	101.0				104.2			
1849.....		69.6	103.0				122.9			
1850.....		82.2	100.0				111.8			
1851.....		69.6	109.0				106.3			
1852.....		98.5	86.0				110.4			
1853.....		68.1			82.8					
1854.....		74.1	100.0	90.9	89.8	100.0	114.6		100.0	101.8
1855.....	100.0	92.6	112.0		93.0	100.0	119.4		119.1	103.9
1856.....	100.0	111.1	119.0		96.7	105.3	119.4		95.4	111.3
1857.....	102.7	76.3	127.0		94.9	104.0	125.7		100.0	108.4
1858.....	113.6	82.2	133.0		100.0	100.0	122.2		114.3	97.3
1859.....	140.9	83.0			96.3	100.0			114.3	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1861.....	115.5	103.0		100.4	96.7	97.3	121.5	106.7	85.7	
1862.....	119.1	111.1	84.0	108.6	94.9	98.2	120.1	74.8	100.0	
1863.....	120.9		117.0	108.2	98.1	94.7	134.7	106.7	89.4	109.6
1864.....	204.5		106.0	109.5	110.2	107.6	161.8	95.8	110.6	129.0
1865.....	154.5	98.5	148.0	141.6	131.6	125.8	138.9	143.8	138.0	146.6
1866.....	181.8	111.1	84.0	120.2	131.6	144.4	153.5	159.7	171.4	160.6
1867.....	170.0	86.7	96.0	133.7	135.3	148.0	173.6	159.7	185.7	177.3
1868.....	181.8	74.1	108.0	123.5	136.3	116.9	166.7	159.7	200.0	177.3
1869.....	175.5	123.7	133.0	130.5	138.6	153.3		159.7	200.0	177.3
1870.....		100.0	133.0	109.9	151.2	153.3	201.4	159.7	185.7	191.9
1871.....	163.6	100.0	133.0	114.4	151.2	166.7	173.6	159.7	209.4	201.5
1872.....	168.2	148.1	100.0	130.5	153.0	155.6	173.6	159.7	200.0	
1873.....	227.3		120.0	137.0	155.3	166.7	191.0	159.7	200.0	186.6
1874.....	193.6	74.1	127.0	108.6	160.0	177.8	180.6	159.7	207.1	
1875.....	200.0	74.1	130.0	130.5	159.5	177.8	175.7	143.8	242.9	
1876.....		98.5	124.0	130.5	147.0	177.8	173.6		178.6	
1877.....	181.8		127.0	112.3	133.5	144.4	173.6		178.6	
1878.....	200.0		137.0	120.2	117.2	144.4	177.8		160.9	
1879.....			147.0	119.3	118.6	144.4	156.9		138.0	
1880.....	128.2		145.0	117.3	116.3	137.8	164.6	111.8	121.4	
1881.....	153.6		170.0	123.0	120.5	137.8	177.8	111.8	138.0	
1882.....	132.7		120.0	115.2	123.3	144.4	184.0	111.8	150.0	
1883.....	150.9		150.0	128.8	134.0	155.6	191.7	111.8	152.3	
1884.....	150.9		180.0	104.5	136.3	140.0	197.2	111.8	147.7	
1885.....	166.4		140.0	120.6	132.6	140.0	181.9	111.8	135.7	
1886.....	120.9		120.0	117.7	126.5	140.0	177.8	111.8	142.9	
1887.....	120.9		120.0	121.0	126.0	140.0	183.3	111.8	146.6	
1888.....	152.7		120.0	114.4	128.8	140.0	183.3	111.8	153.4	
1889.....	140.0			118.5	129.8	140.0	186.1	111.8	152.3	
1890.....	150.0		120.0	116.0	128.4		188.2	127.8	152.3	
1891.....	163.6		160.0	114.4	133.0		186.1	127.8	152.3	

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	56. Pattern makers.	57. Pattern makers.	59. Pattern makers.	60. Pattern makers.	62. Pattern makers.	67. Pattern makers.	68. Pattern makers.	71. Pattern makers.	73. Pattern makers.	74. Pattern makers.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....							108.5			
1845.....				78.0	59.9		116.3			
1846.....				78.0	64.7	86.0	111.2			
1847.....				78.0	67.4	83.3	113.2	74.5		
1848.....				78.0	79.9	86.7	110.1	74.5		
1849.....				78.0	79.9	88.3	108.5	80.9		97.7
1850.....				78.0	74.9	87.7	108.9	84.9		97.7
1851.....				77.0	74.9	89.7	101.9	87.2		97.7
1852.....				77.0	92.2	93.7	109.3	89.3		97.7
1853.....	86.9		80.0	77.0	79.6	95.7		89.8		
1854.....	83.2		85.7	96.3	89.8	100.0	121.7	95.7		
1855.....	86.7		85.7	96.3	100.0	106.3	131.4	95.7		97.7
1856.....	86.7	97.2	85.7	87.5	100.0	106.3	145.3	93.6		112.4
1857.....	93.3	100.3	91.4	87.5	94.9	105.7	135.7	95.7	98.1	112.4
1858.....	86.7	102.8	105.7	93.8	100.0	105.3		91.3	101.6	100.0
1859.....	100.0	105.9	105.7	93.8	85.0	100.0		91.3	100.0	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	105.9	100.0	105.0	94.6	100.0	126.0	97.2	112.3	101.0
1862.....	100.0	99.4	100.0	112.5		94.3	116.3	94.4	112.3	107.5
1863.....	100.0	104.0	100.0	125.0		94.3	116.3	99.2	119.2	120.5
1864.....	109.1	118.5	114.3	150.0	119.8	105.7	143.0	125.3	152.4	130.3
1865.....	140.0	153.1	137.1	175.0		136.0	168.6	145.4	175.4	159.0
1866.....	142.1	177.5	142.9	175.0	149.7	135.3	180.2	146.9	172.6	175.9
1867.....	160.0	172.2	142.9	175.0	179.6	139.0	191.9	155.9	173.5	182.4
1868.....	164.5	175.6	142.9	175.0	179.6	150.0	210.9	167.6	163.1	182.4
1869.....	168.8	181.2	142.9	160.0	179.6	155.7	209.3	177.0	163.1	175.9
1870.....	182.1	180.6	162.9	150.0	179.6	155.7	202.7	176.5	163.1	185.7
1871.....	173.3	183.6	142.9	150.0	179.6	183.3	177.1	174.0	151.4	179.2
1872.....	176.8	185.2	171.4	150.0	179.6	183.3	205.4	171.7	159.9	185.0
1873.....	182.1	175.6	171.4	150.0		170.0	173.6	175.3	164.0	187.3
1874.....	186.7	173.8	171.4	150.0		170.0	193.8	172.2	172.6	188.9
1875.....	186.7	177.5	171.4	120.0		175.0	193.8	161.2	155.2	159.0
1876.....	153.3	165.7	171.4	125.0		175.0	176.4	149.5	136.3	140.7
1877.....	162.7	155.6	171.4	100.0		166.7	160.1	134.2	132.5	140.7
1878.....	145.3	159.6	142.9	112.5		172.3	134.5	123.7	126.2	130.3
1879.....	144.0	157.4	142.9	115.0		158.3	139.5	122.2	123.0	130.3
1880.....	132.0	154.3	128.6	118.3		136.0	134.5	129.1	135.0	130.3
1881.....	132.0	156.5	142.9	115.0		143.0	141.5	141.8	140.4	138.1
1882.....	138.7	171.6	142.9	122.5		150.0	166.7	160.5	153.9	154.1
1883.....	138.7	160.2	157.1			169.0	173.6	173.0	154.6	165.1
1884.....	132.5	158.6	157.1	120.0		175.0	187.6	178.6	154.6	165.1
1885.....	132.5	151.2	142.9	125.0		170.0	177.1	165.8	143.8	143.3
1886.....	142.7	154.3	142.9	115.0		163.3	167.8	169.1	145.1	143.3
1887.....	140.5	158.6	157.1	112.5		150.0	165.1	158.2	157.7	159.5
1888.....	145.9	154.3	157.1	112.5		153.3	164.0	162.2	170.3	172.3
1889.....	149.3	154.3	157.1	125.0		157.0	162.8	160.7	170.3	172.3
1890.....	158.1	154.3	157.1	125.0		162.3	160.1	162.2	170.3	172.3
1891.....	160.0	158.6	157.1	125.0		172.3	178.3	165.1	170.3	179.2

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

METALS AND METALLIC GOODS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	68. Pattern makers' appren- tices.	74. Pattern makers' helpers.	57. Team- sters.	58. Team- sters.	66. Team- sters.	60. Watch- men.	66. Watch- men.	67. Watch- men.	68. Watch- men.	61. Wood- work- ers.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....									58.8	
1845.....	63.2					50.0			58.8	
1846.....	75.2					50.0			70.0	
1847.....						50.0		84.0	65.2	
1848.....						50.0			70.0	
1849.....	63.2					50.0			70.0	
1850.....	69.2			90.4		50.0			65.2	80.2
1851.....	63.2			90.4		56.7		92.6	65.2	80.2
1852.....	69.2					56.7		92.6	70.0	80.2
1853.....				95.7		56.7		92.6		90.1
1854.....	78.2			106.4		56.7		92.6		90.1
1855.....	85.0		107.2	106.4		56.7		108.0		95.2
1856.....	91.7		107.2	106.4		56.7		108.0	100.0	90.1
1857.....	100.0		107.2	106.4		66.7		108.0	100.0	93.4
1858.....		100.0	106.2	106.4		66.7		108.0	100.0	93.4
1859.....		100.0	107.2	106.9	100.0	66.7	100.0	100.0		96.4
1860.....		100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
1861.....		100.0	100.0	106.4	100.0	120.0	100.0	103.1		110.2
1862.....		100.0	83.5	108.0	100.0	120.0	100.0			112.6
1863.....		115.4	116.0	111.7	100.0	120.0	100.0	114.8		115.0
1864.....	63.2	115.4	131.4	123.9	116.5	120.0	100.0	114.8		125.2
1865.....	112.8	153.8	159.3	146.3	141.5	140.0	117.0	123.5		135.1
1866.....		123.1	168.6	159.6	141.5	160.0	117.0	132.1		155.3
1867.....	75.2	123.1	168.6	159.6	141.5	160.0	133.9	132.1		157.7
1868.....	75.2	123.1	168.6	163.8	150.0	160.0	142.1	132.1		157.7
1869.....	106.0	123.1	168.6	164.9	158.5	180.0	142.1	132.1		157.7
1870.....	108.3	115.4	168.6		150.0	180.0	142.1	132.1		157.7
1871.....	112.8	115.4	168.6		158.5	180.0	142.1	176.5		157.7
1872.....	131.6	115.4	168.6		150.0	180.0	142.1	176.5		160.1
1873.....	75.2	115.4	180.4		162.5	180.0	150.3	176.5		157.7
1874.....	75.2	123.1	180.4		162.5	180.0	150.3	176.5	160.0	180.2
1875.....	105.3	115.4	137.1		162.5	144.0	150.3	176.5	160.0	180.2
1876.....	127.8	115.4	137.1		162.5	160.0	150.3	176.5	160.0	180.2
1877.....	120.3	115.4	137.1	159.6	162.5	128.0	150.3	176.5	160.0	162.2
1878.....	105.3	100.0	137.1		162.5	140.0	150.3	176.5	160.0	162.2
1879.....	127.8	100.0	137.1	159.6	137.5	140.0	125.1	176.5	160.0	139.6
1880.....	180.5	100.0	137.1	159.6	141.5	120.0	125.1	176.5	160.0	139.6
1881.....	75.2	100.0	137.1	141.0	141.5	120.0	125.1	176.5	160.0	146.8
1882.....	105.3	115.4	137.1	136.7	141.5	128.0	142.1	176.5	171.6	142.9
1883.....	120.3	115.4	137.1	177.1	150.0		150.3	154.3	171.6	142.9
1884.....	142.9	115.4	137.1	136.7	150.0	128.0	150.3	165.4	171.6	142.9
1885.....	135.3	107.7	137.1	141.5	150.0	120.0	150.3	180.9	171.6	144.7
1886.....	75.2	107.7	154.6	150.0	150.0	120.0	150.3	185.2	171.6	144.7
1887.....	75.2	107.7	154.6	159.6	150.0	140.0	150.3	176.5	171.6	144.7
1888.....	120.3	100.0	154.6	159.6	150.0	140.0	175.4	176.5	171.6	144.7
1889.....	120.3	92.3	163.4	159.6	150.0	140.0	175.4	176.5	171.6	144.7
1890.....		107.7	163.4	159.6	150.0	140.0	175.4	176.5	160.0	147.4
1891.....	75.2	107.7	163.4	159.6	150.0	140.0	175.4	176.5	160.0	147.4

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

PAPER.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	75. Engi- neers.	75. Finish- ers.	75. Laborers.	75. Machine hands.	75. Machine hands helpers.	75. Paper cutters.	75. Rag sorters.
1840							
1841							
1842							
1843							
1844							
1845							
1846							
1847							
1848							
1849							
1850							
1851							
1852							
1853							
1854							
1855							
1856							
1857							
1858							
1859	100.0	100.0	100.0	100.0	83.5	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1862	100.0	86.8	80.0	100.0	100.0	80.0	80.0
1863	114.6	106.8	100.0	112.4	116.5	100.0	100.0
1864	114.6	106.8	100.0	124.7	116.5	100.0	100.0
1865	142.9	160.0	150.0	168.5	150.0	117.0	117.0
1866	142.9	200.0	150.0	187.3	150.0	130.0	117.0
1867	142.9	200.0	150.0	206.0	150.0	150.0	130.0
1868	157.5	240.0	150.0	206.0	166.5	150.0	130.0
1869	157.5	260.0	150.0	206.0	150.0	150.0	130.0
1870	171.7	240.0	150.0	206.0	150.0	150.0	130.0
1871	171.7	241.2	150.0	224.7	150.0	150.0	130.0
1872	171.7	189.2	150.0	224.7	150.0	200.0	150.0
1873	171.7	284.0	150.0	224.7	150.0	200.0	150.0
1874	171.7	226.4	150.0	224.7	150.0	200.0	150.0
1875	171.7	296.8	150.0	224.7	150.0	200.0	150.0
1876	171.7	403.2	150.0	224.7	150.0	200.0	150.0
1877	150.2	270.4	125.0	187.3	140.0	150.0	150.0
1878	128.8	168.0	125.0	168.5	125.0	150.0	150.0
1879	128.8	260.0	125.0	168.5	125.0	200.0	150.0
1880	128.8	212.4	125.0	168.5	125.0	200.0	150.0
1881	150.2	219.2	135.0	187.3	135.0	200.0	150.0
1882	150.2	234.0	135.0	187.3	135.0	200.0	150.0
1883	150.2	312.4	135.0	187.3	135.0	200.0	150.0
1884	150.2	290.0	135.0	187.3	135.0	200.0	150.0
1885	150.2	294.0	135.0	187.3	135.0	200.0	150.0
1886	150.2	312.8	135.0	187.3	135.0	200.0	150.0
1887	171.7	274.8	135.0	206.0	135.0	200.0	150.0
1888	171.7	240.8	135.0	206.0	150.0	200.0	150.0
1889	171.7	266.4	135.0	206.0	150.0	200.0	150.0
1890	171.7	232.4	135.0	187.3	150.0	200.0	150.0
1891	171.7	233.2	150.0	206.0	165.0	200.0	150.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

RAILROADS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	76. Bag- gage- men.	76. Brake- men, freight.	76. Brake- men, passen- ger.	76. Carpen- ters.	76. Conduc- tors, freight.	76. Conduc- tors, passen- ger.	76. Engi- neers, locomo- tive.	76. Fire- men, locomo- tive.	76. Fore- men, masons.	76. Masons.	76. Paint- ers.
1840	80.2	85.8	92.0	94.2	103.1	66.0	93.0	92.6	100.0	87.5	90.1
1841	80.2	85.8	92.0	.....	103.1	66.0	95.0	94.8	100.0	93.8	89.8
1842	80.2	85.8	92.0	.....	101.2	66.0	95.4	94.3	100.0	97.5	100.0
1843	80.2	85.8	92.0	98.1	110.2	66.0	93.7	92.1	100.0	91.8	86.5
1844	80.2	85.8	92.0	.....	102.2	66.0	93.7	93.4	100.0	87.8	88.9
1845	80.2	85.8	92.0	102.3	104.1	66.0	93.5	91.7	100.0	89.5	80.2
1846	80.2	85.8	92.0	102.3	105.9	72.0	95.0	92.1	100.0	90.3	73.7
1847	80.2	85.8	92.0	98.1	104.7	72.0	95.4	92.6	100.0	91.3	100.0
1848	80.2	85.8	92.0	100.4	101.2	72.0	92.4	100.4	100.0	100.0	85.0
1849	80.2	85.8	92.0	.....	104.1	72.0	93.3	100.4	100.0	89.3	88.9
1850	80.2	85.8	92.0	102.3	104.7	72.0	94.8	100.4	100.0	100.0	85.0
1851	80.2	85.8	92.0	93.8	104.7	72.0	92.6	100.4	100.0	100.0	85.0
1852	80.2	85.8	92.0	100.4	99.1	72.0	93.9	100.4	100.0	100.0	66.5
1853	80.2	85.8	92.0	94.6	100.3	77.9	87.0	100.4	100.0	97.3	88.0
1854	80.2	85.8	92.0	103.1	100.6	77.9	108.3	117.0	100.0	100.0	100.0
1855	80.2	85.8	98.4	105.8	101.2	77.9	108.3	117.0	100.0	.....	100.0
1856	80.2	85.8	101.6	113.5	99.1	77.9	108.3	117.0	100.0	100.0	82.9
1857	80.2	85.8	100.0	104.6	99.4	77.9	108.3	117.0	100.0	100.0	91.0
1858	80.2	100.0	100.0	101.9	100.0	90.0	105.7	117.0	100.0	.....	74.9
1859	80.2	100.0	100.0	.....	102.5	100.0	100.0	104.8	100.0	100.0	.....
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	.....	108.7	100.0	100.0	113.5	100.0	90.8	119.8
1862	100.0	100.0	100.0	106.9	110.9	100.0	100.0	113.5	100.0	.....	82.3
1863	100.0	100.0	100.0	98.5	110.6	100.0	104.8	117.0	100.0	112.8	89.2
1864	100.0	120.2	100.0	130.8	110.2	100.0	105.9	117.0	100.0	125.0	119.8
1865	109.9	120.2	100.0	170.0	163.0	120.0	125.2	152.8	140.0	140.0	121.6
1866	109.9	145.9	139.6	135.4	171.7	120.0	130.4	152.8	160.0	146.8	150.9
1867	109.9	145.9	153.2	191.2	166.5	120.0	146.3	152.8	180.0	162.5	129.6
1868	109.9	171.7	184.0	166.2	165.5	120.0	144.3	152.8	190.0	165.0	127.2
1869	109.9	171.7	160.0	169.2	164.3	120.0	143.5	152.8	200.0	200.0	137.7
1870	109.9	171.7	160.0	196.9	157.5	120.0	165.4	174.7	200.0	200.0	156.3
1871	109.9	171.7	180.0	186.5	157.1	120.0	166.3	174.7	200.0	190.3	152.4
1872	109.9	171.7	180.0	172.3	152.5	120.0	166.7	174.7	200.0	200.0	157.2
1873	109.9	171.7	180.0	211.5	155.3	120.0	163.5	174.7	200.0	200.0	131.4
1874	109.9	154.9	180.0	168.8	157.1	120.0	163.5	166.4	180.0	166.3	132.9
1875	109.9	171.7	180.0	175.0	165.5	120.0	162.2	174.7	180.0	.....	135.3
1876	109.9	150.2	180.0	.....	160.2	108.0	163.0	157.2	160.0	178.8	106.9
1877	109.9	141.6	144.0	143.5	146.9	108.0	160.2	157.2	160.0	175.0	115.0
1878	109.9	141.6	144.0	123.5	146.0	108.0	148.7	140.6	160.0	162.5	114.4
1879	109.9	141.6	144.0	152.3	142.9	108.0	149.1	174.7	150.0	134.3	109.6
1880	109.9	150.2	160.0	136.2	157.5	108.0	162.8	174.7	160.0	150.0	112.3
1881	109.9	150.2	160.0	152.7	161.2	120.0	164.6	174.7	160.0	162.5	122.2
1882	109.9	150.2	160.0	147.7	159.6	120.0	163.3	174.7	160.0	162.5	98.2
1883	109.9	150.2	160.0	160.4	163.7	120.0	165.4	174.7	160.0	160.0	119.5
1884	109.9	150.2	160.0	155.8	165.8	120.0	163.7	174.7	160.0	149.5	109.3
1885	109.9	150.2	160.0	147.7	165.2	120.0	162.4	173.4	160.0	162.5	194.6
1886	104.4	150.2	160.0	159.6	163.7	120.0	163.0	171.2	160.0	144.5	115.0
1887	104.4	150.2	160.0	146.5	157.5	120.0	164.8	172.1	160.0	154.5	112.0
1888	104.4	150.2	160.0	156.2	161.2	120.2	164.1	172.9	160.0	154.3	137.1
1889	105.2	153.6	160.0	164.6	158.4	120.2	164.8	172.1	164.0	141.3	127.2
1890	105.7	151.5	160.0	161.2	163.0	120.2	163.9	171.6	164.0	131.8	123.7
1891	105.5	151.0	160.0	152.7	159.3	120.2	164.8	172.1	164.0	136.0	124.3

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

SIDEWALKS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	77. Side- walk layers.	77. Side- walk layers' helpers.	77. Stone- cutters.	77. Team- sters.
1840.....				
1841.....				
1842.....	87.5	100.0		75.0
1843.....	87.5	100.0		75.0
1844.....	87.5	100.0		75.0
1845.....	87.5	100.0		75.0
1846.....	87.5	100.0		75.0
1847.....	87.5	100.0		75.0
1848.....	87.5	100.0		75.0
1849.....	87.5	100.0		75.0
1850.....	100.0	100.0	100.0	100.0
1851.....	100.0	100.0	100.0	100.0
1852.....	100.0	100.0	100.0	100.0
1853.....	100.0	100.0	100.0	100.0
1854.....	100.0	100.0	100.0	100.0
1855.....	100.0	100.0	100.0	100.0
1856.....	100.0	100.0	100.0	100.0
1857.....	100.0	100.0	100.0	100.0
1858.....	100.0	100.0	100.0	100.0
1859.....	100.0	100.0	100.0	100.0
1860.....	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	100.0	100.0
1862.....	100.0	100.0	100.0	100.0
1863.....	112.8	125.0	112.5	100.0
1864.....	137.5	175.0	137.5	100.0
1865.....	175.0	250.0	175.0	100.0
1866.....	187.5	275.0	187.5	100.0
1867.....				
1868.....				
1869.....	212.5	325.0	212.5	100.0
1870.....	212.5	325.0	212.5	100.0
1871.....	200.0	300.0	200.0	100.0
1872.....	200.0	300.0	200.0	100.0
1873.....	200.0	300.0	200.0	100.0
1874.....	200.0	225.0	200.0	100.0
1875.....	175.0	200.0	175.0	100.0
1876.....	150.0	200.0	150.0	100.0
1877.....	150.0	200.0	150.0	100.0
1878.....	150.0	200.0	150.0	100.0
1879.....	150.0	200.0	150.0	100.0
1880.....	150.0	200.0	150.0	100.0
1881.....	150.0	200.0	150.0	100.0
1882.....	187.5	250.0	187.5	100.0
1883.....	187.5	250.0	187.5	100.0
1884.....	187.5	250.0	187.5	100.0
1885.....	187.5	250.0	187.5	100.0
1886.....	187.5	250.0	187.5	100.0
1887.....	187.5	250.0	187.5	100.0
1888.....	187.5	250.0	187.5	100.0
1889.....	187.5	250.0	187.5	100.0
1890.....	187.5	250.0	187.5	100.0
1891.....	200.0	250.0	200.0	100.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

SPICE.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	78. Grind- ers.	78. Labor- ers.	78. Pack- ers.	78. Ship- pers.	78. Team- sters.
1840					
1841					
1842					
1843					
1844					
1845					
1846					
1847					
1848					
1849					
1850					
1851					
1852					
1853					
1854					
1855					
1856					
1857					
1858					
1859					
1860		100.0	100.0		100.0
1861	100.0	101.4	100.0	100.0	
1862	83.5	158.6	100.0		
1863	83.5	111.9	100.0		
1864	111.0	115.2	100.0		100.0
1865	133.5	152.4	100.0	166.5	122.3
1866		166.7	100.0	200.0	116.7
1867		151.0	100.0		
1868		158.6	100.0		
1869		144.8	100.0		111.0
1870		161.4	100.0	200.0	114.0
1871		166.7	83.3		116.7
1872	200.0	147.1	83.3	233.5	122.3
1873	191.5	151.9	83.3	208.5	111.0
1874	155.5	145.2	83.3	233.5	100.0
1875	194.5	158.6	83.3	233.5	111.0
1876	194.5	166.7	83.3	250.0	111.0
1877	194.5	149.0	83.3	266.5	111.0
1878	211.0	147.1	83.3	266.5	105.7
1879	183.5	146.7	83.3	266.5	105.7
1880	183.5	132.9	75.0	266.5	100.0
1881	183.5	140.0	75.0	266.5	100.0
1882	158.5	134.8	66.7	266.5	94.3
1883	175.0	127.1	66.7	300.0	107.3
1884	175.0	144.8	66.7	300.0	107.3
1885	166.5	146.7	66.7	300.0	111.0
1886	170.5	131.9	66.7	300.0	111.0
1887	185.5	149.0	66.7	300.0	111.0
1888	185.5	141.9	66.7	300.0	111.0
1889	185.5	143.3	66.7	300.0	116.7
1890	185.5	151.0	66.7	300.0	116.7
1891	185.5	151.9	66.7	300.0	116.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

STONE.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	81. Carpen- ters.	80. Carv- ers.	81. Engi- neers.	79. Fore- men, quarry- men.	80. Fore- men, quarry- men.	83. Granite cutters.	81. Labor- ers.	84. Labor- ers.	81. Marble cutters.	82. Marble cutters.
1840.....										73.5
1841.....										79.7
1842.....										73.5
1843.....										73.5
1844.....										73.5
1845.....										76.7
1846.....				137.1						85.0
1847.....										85.8
1848.....										80.1
1849.....										
1850.....				107.1						
1851.....				116.1	82.4					104.2
1852.....				128.2	80.8					110.3
1853.....				121.8	84.5					110.3
1854.....	100.0	80.0	100.0	147.5			88.9		88.9	126.0
1855.....	100.0	100.0	100.0	148.2	81.1	105.6	88.9		88.9	104.2
1856.....	100.0	100.0	100.0	153.6	78.2	105.6	100.0		97.8	113.0
1857.....	100.0	100.0	100.0	144.6	100.0	90.4	100.0		100.0	113.0
1858.....	100.0	100.0	100.0	148.2	97.4	94.4	100.0		100.0	97.3
1859.....	100.0	100.0	100.0	137.9	101.8	92.7	100.0		100.0	100.5
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....				129.6	83.9	88.9		100.0	88.9	76.2
1862.....				122.5	78.9	83.3		100.0		84.1
1863.....	121.5	100.0	111.3	140.0	105.3	94.4	111.1	120.0	100.0	95.8
1864.....	115.3	125.0	144.7	143.6	114.2	133.3	140.9	120.0	129.1	127.9
1865.....	121.5	130.0	144.7	173.6	132.1	133.3	148.4	120.0	144.4	146.3
1866.....	121.5	140.0	144.7	182.1	138.2	157.1	158.2	120.0	144.4	144.9
1867.....	121.5	150.0	144.7	213.2	147.9	181.3	152.0	120.0	154.2	170.1
1868.....	121.5	150.0	144.7	215.4	157.4	189.8	152.0	120.0	155.6	169.9
1869.....	121.5	160.0	144.7	242.5	174.7	203.1	156.0	120.0	155.6	176.2
1870.....	121.5	160.0	144.7	233.9	172.9	186.7	156.0	120.0	155.6	152.2
1871.....	121.5	160.0	144.7	243.9	168.7	192.0	156.0	120.0	155.6	157.6
1872.....	121.5	160.0	144.7	253.2	180.8	186.7	158.2	140.0	155.6	155.1
1873.....	121.5	160.0	144.7	248.9	187.4	177.8	158.2	140.0	153.6	162.0
1874.....	121.5	160.0	144.7	221.4	168.4	183.3	158.2	140.0	153.6	155.1
1875.....	121.5	160.0	144.7	209.6	153.2	177.8	152.0	140.0	152.4	149.8
1876.....	121.5	160.0	144.7	199.6	136.8	177.8	152.0	140.0	149.1	143.6
1877.....	109.1	130.0	144.7	191.1	139.5	116.7	143.1	120.0	124.2	138.0
1878.....	90.9	130.0	144.7	191.4	139.5	131.1	143.1	144.0	120.9	122.1
1879.....	90.9	130.0	144.7	189.3	139.5	166.7	131.1	140.0	120.9	118.4
1880.....	90.9	110.0	144.7	195.7	139.5	111.1	131.1	140.0	111.1	119.6
1881.....	121.5	115.0	133.3	206.4	115.0	132.2	125.3	140.0	111.1	129.7
1882.....	121.5	140.0	133.3	227.5	149.2	153.3	132.0	140.0	118.2	135.0
1883.....	121.5	140.0	133.3	226.4	138.9	137.8	132.0	140.0	118.2	131.9
1884.....	145.5	140.0	133.3	215.4	145.5	151.8	136.0	140.0	119.6	140.2
1885.....	145.5	145.0	133.3	207.9	150.0	152.4	136.0	140.0	120.4	141.4
1886.....	145.5	160.0	133.3	221.1	147.9	154.7	135.6	140.0	119.1	148.0
1887.....	145.5	160.0	133.3	202.9	166.6	151.8	133.8	140.0	122.2	145.8
1888.....	145.5	160.0	133.3	227.5	166.3	155.6	138.2	140.0	128.2	147.1
1889.....	145.5	160.0	133.3	183.9	166.3	175.3	138.2	140.0	127.8	145.1
1890.....	145.5	160.0	133.3	213.6	148.2	177.8	138.2	140.0	127.1	171.6
1891.....	145.5	160.0	133.3	231.4	157.6	177.8	136.4	160.0	128.4	172.3

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

STONE—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	81. Marble pol- ishers.	82. Marble pol- ishers.	81. Marble rub- bers.	82. Marble rub- bers.	79. Quarry- men.	80. Quarry- men.	84. Stone cutters.	81. Team- sters.	81. Watch- men.
1840				87.3					
1841		95.1		87.3					
1842				87.3	76.7				
1843				87.3	54.7				
1844				87.3	68.6				
1845				87.3	76.7				
1846				87.3	81.8				
1847				87.3	84.7				
1848				87.3	81.4				
1849					79.2				
1850					80.1				
1851				101.7	86.4	71.7			
1852				94.8	83.1	79.1			
1853				109.2	85.6	86.5			
1854	94.8	114.1	95.9	124.5	108.1	98.4		88.9	100.0
1855	94.8	95.1	95.9	102.2	94.5	91.8		88.9	100.0
1856	96.5	114.1	100.9	101.3	102.1	89.3		100.0	100.0
1857	100.0	114.1	99.1	100.9	94.9	99.6		100.0	100.0
1858	100.0	104.6	97.7	99.6	97.9	94.7		100.0	100.0
1859	99.6	85.6	99.5	99.6	100.0	97.5		100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	87.0	79.1	99.1	89.1	96.6	80.3	100.0		71.5
1862		82.5	91.3	88.6	90.7	86.9	100.0	88.9	
1863	108.7	105.7	114.2	113.5	114.4	111.1	114.3	100.0	100.0
1864	140.4	155.9	149.3	161.6	135.2	129.5	153.4	133.3	125.0
1865	148.7	166.2	151.1	182.1	155.1	144.3	174.3	148.4	125.0
1866	154.8	153.2	148.9	201.7	157.6	156.1	185.7	163.1	125.0
1867	152.6	162.4	152.5	207.4	157.2	162.3	188.9	163.1	125.0
1868	152.6	170.7	151.1	224.0	164.8	184.8	214.3	148.4	125.0
1869	151.3	180.6	152.5	258.5	212.3	204.5	146.0	140.9	125.0
1870	152.6	159.3	152.5	240.2	208.9	202.9	196.0	148.4	143.0
1871	151.7	171.5	152.5	240.2	207.2	195.1	198.6	148.4	143.0
1872	150.0	167.3	152.5	247.6	207.2	201.2	214.9	148.4	143.0
1873	148.3	166.2	152.5	226.6	212.7	187.3	214.9	148.4	143.0
1874	150.9	163.5	152.5	229.3	183.9	173.4	215.4	148.4	143.0
1875	150.9	168.8	152.5	224.5	161.0	144.3	214.9	143.6	143.0
1876	141.3	152.1	152.5	202.2	139.4	126.2	196.9	143.6	143.0
1877	137.8	132.3	137.0	174.7	131.8	118.4	189.4	133.3	128.5
1878	135.2	123.6	136.5	163.8	130.5	122.5	178.6	133.3	128.5
1879	113.5	119.4	114.2	159.4	125.0	120.1	120.3	111.1	107.0
1880	113.9	133.1	114.2	167.2	134.3	127.0	144.0	111.1	107.0
1881	122.6	150.6	125.6	183.4	138.1	139.3	157.4	122.2	118.0
1882	133.9	168.8	137.0	198.7	154.7	147.5	187.4	133.3	128.5
1883	133.9	168.4	137.0	192.1	155.9	145.5	186.9	133.3	128.5
1884	137.8	169.6	137.0	195.6	149.6	147.5	186.6	133.3	128.5
1885	130.9	171.1	137.0	207.4	141.9	148.0	187.1	133.3	128.5
1886	130.9	170.3	137.0	202.6	165.3	151.2	172.9	133.3	128.5
1887	134.3	190.1	137.0	200.0	155.5	155.7	173.4	133.3	128.5
1888	135.2	190.1	137.0	207.4	159.7	159.4	186.3	133.3	128.5
1889	135.2	190.1	137.0	235.8	158.5	159.0	189.1	133.3	128.5
1890	134.3	209.1	137.0	262.0	172.0	157.0	187.4	133.3	128.5
1891	134.3	209.1	137.0	262.0	170.8	160.2	201.1	133.3	128.5

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

WHITE LEAD.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	85. Engi- neers.	85. Laborers.	85. Laborers, boys.	85. Watch- men.
1840.....		89.3	92.1	
1841.....				
1842.....	66.7	89.3	65.4	
1843.....	66.7	89.3	65.4	
1844.....	66.7	89.3	65.4	
1845.....	94.3	89.3	85.0	
1846.....	94.3	89.3		
1847.....		89.3		
1848.....		89.3		
1849.....	66.7	89.3	92.1	87.3
1850.....	77.7	89.3	87.4	100.0
1851.....	89.0	89.3	102.4	93.9
1852.....	89.0	89.3	104.7	93.9
1853.....	91.7	89.3	100.8	93.9
1854.....	89.0	89.3	131.5	93.9
1855.....	100.0	103.1	87.4	87.3
1856.....	100.0	103.1	100.0	87.3
1857.....	100.0	100.9	92.1	93.4
1858.....	100.0	100.9	100.8	93.4
1859.....	100.0	100.0	99.2	93.9
1860.....	100.0	100.0	100.0	100.0
1861.....	100.0	100.9	104.7	100.0
1862.....	111.0	103.6	104.7	100.0
1863.....	111.0	111.6	92.1	124.9
1864.....	133.3	110.3	118.1	
1865.....	116.7	156.3	98.4	149.8
1866.....	116.7	156.3	104.7	149.8
1867.....	116.7	156.3	118.1	149.8
1868.....	116.7	156.3	104.7	162.0
1869.....	133.3	178.6	131.5	174.7
1870.....	133.3	89.3	78.7	174.7
1871.....	133.3	100.4		174.7
1872.....	133.3		78.7	174.7
1873.....	133.3	133.9	118.1	174.7
1874.....	116.7	156.3	131.5	174.7
1875.....	116.7	156.3	131.5	174.7
1876.....	116.7	122.8	131.5	174.7
1877.....	116.7	133.9	131.5	149.8
1878.....	111.0	112.5	78.7	149.8
1879.....	111.0	110.3	104.7	149.8
1880.....	116.7	102.7	125.2	124.9
1881.....	116.7	107.6	104.7	149.8
1882.....	116.7	112.9	118.1	149.8
1883.....	116.7	114.3		174.7
1884.....	116.7	114.3	78.7	174.7
1885.....	133.3	117.0	92.1	174.7
1886.....	133.3	115.6	118.1	174.7
1887.....	133.3	115.2		174.7
1888.....	133.3	113.8		174.7
1889.....	133.3	112.9		174.7
1890.....	133.3	114.3		174.7
1891.....	133.3	113.8		174.7

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

WOOLLEN GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	88. Alley boys.	88. Burl- ers.	86. Card clean- ers.	88. Card feeders.	86. Card tend- ers.	87. Card tend- ers.	87. Carders	86. Carpen- ters.	88. Clean- ers.	86. Draw- ers-in.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....										
1845.....										
1846.....										
1847.....										
1848.....										
1849.....										
1850.....	106.3	92.6		100.0					110.8	
1851.....	106.3	92.6		100.0					110.8	
1852.....	106.3	92.6		100.0					110.8	
1853.....	106.3	92.6		100.0					110.8	
1854.....	106.3	92.6		100.0					106.0	
1855.....	106.3	92.6		100.0					106.0	
1856.....	100.0	92.6		100.0					106.0	
1857.....	100.0	92.6		100.0					106.0	
1858.....	100.0	100.0		100.0					106.0	
1859.....	100.0	100.0	89.9	100.0	93.3	83.5	89.3	133.3	100.0	93.5
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	111.6	100.0	106.7	129.1	107.5		90.4	
1862.....	100.0	100.0	137.7	100.0	105.8	131.6	102.5		90.4	119.4
1863.....	79.4	100.0	102.9	86.2	107.5	138.0	108.8	108.0	90.4	119.4
1864.....	92.1	100.0	109.4	122.4	112.5	141.8	122.0		100.0	
1865.....	100.0	107.4	154.3	143.1	142.5	154.4	115.7	108.0	85.5	201.6
1866.....	100.0	124.1	138.4	151.7	122.5	173.4	148.4	150.0	88.0	221.8
1867.....	112.7	131.5	123.2	137.9	130.0	164.6	140.3		80.1	
1868.....	112.7	131.5	142.0	137.9	120.8	168.4	149.1		80.1	201.6
1869.....	112.7	148.1	148.6	137.9	120.0	174.7	146.5		80.1	201.6
1870.....	119.0	150.9	156.5	143.1	105.0	182.3	150.3	183.3	121.1	201.6
1871.....	116.7	150.9	150.0	136.2	114.2	170.9	144.7	183.3	121.1	201.6
1872.....	131.7	149.1	161.6	143.1	106.7	184.8	146.5	183.3	127.1	201.6
1873.....	132.5	150.0	144.2	138.8	105.8	183.5	146.5	191.7	128.3	
1874.....	115.1	137.0	140.6	123.3	101.7	186.1	150.3	191.7	110.8	217.7
1875.....	132.5	148.1	147.1	150.0	100.0	184.8	149.1	191.7	124.7	170.2
1876.....	132.5	148.1	126.8	150.0	99.2	183.5	149.1	183.3	124.7	161.3
1877.....	122.2	144.4	126.8	124.1	100.8			183.3	105.4	201.6
1878.....	122.2	144.4	121.0	124.1	93.3	192.4	136.5	183.3	106.6	222.6
1879.....	122.2	144.4	126.8	124.1	98.3	192.4	136.5	183.3	106.6	238.7
1880.....	121.4	132.4	173.9	124.1	103.3	187.3	136.5	183.3	115.1	246.8
1881.....	121.4	132.4	163.0	115.5	103.3	196.2	144.7	183.3	109.6	295.2
1882.....	127.0	132.4	163.0	106.0	108.3	200.0	142.1	183.3	111.4	262.9
1883.....	127.0	132.4	163.0	106.0	116.7	197.5	142.1	183.3	113.3	374.2
1884.....	129.4	134.3	169.6	106.0	166.7	201.3	142.1	183.3	113.3	325.8
1885.....	131.0	134.3	126.8	106.0		194.9	144.7	183.3	117.5	274.2
1886.....	133.3	136.1	147.1	112.1		192.4	142.1	183.3	121.1	232.3
1887.....	133.3	138.0	136.2	106.0		189.9	151.6	183.3	121.1	225.8
1888.....	133.3	138.9	161.6	106.0	126.7	193.7	148.4	183.3	120.5	287.1
1889.....	133.3	138.9	163.0	106.0	145.8	194.9	159.1	183.3	121.1	274.2
1890.....	133.3	138.9	163.0	106.0	118.3	193.7	152.2	183.3	121.1	309.7
1891.....	133.3	138.9	168.8	106.0	141.7	193.7	150.9	183.3	121.1	312.9

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	88. Dress- ers.	87. Dye- house hands.	88. Dyers.	88. Filling carriers.	88. Filling sorters.	88. Finish- ers.	88. Fullers.	86. Fullers and giggers.	88. Giggers.	86. Hand- ers-in.
1840.....										
1841.....										
1842.....										
1843.....										
1844.....										
1845.....										
1846.....										
1847.....										
1848.....										
1849.....										
1850.....	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1851.....	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1852.....	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1853.....	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1854.....	108.0		90.9	89.3	82.6	94.9	95.7		105.1	
1855.....	100.0		90.9	89.3	82.6	94.9	95.7		100.0	
1856.....	100.0		95.5	100.0	82.6	100.0	100.0		100.0	
1857.....	100.0		98.2	100.0	82.6	100.0	100.0		105.1	
1858.....	100.0		98.2	100.0	92.6	100.0	100.0		100.0	
1859.....	100.0	96.9	98.2	100.0	92.6	100.0	100.0	131.5	100.0	
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	92.0	100.8	109.1	100.0	100.0	100.0	100.0	107.1	100.0	
1862.....	92.0	97.7	113.6	111.6	103.3	100.0	100.0	94.0	94.9	60.0
1863.....	92.0	119.2	109.1	111.6	109.9	94.9	103.4	106.5	105.1	60.0
1864.....	92.0	119.2	113.6	111.6	109.9	116.5	106.8	86.9	126.6	
1865.....	100.0	154.6	113.6	118.8	109.9	126.6	106.8	168.5	126.6	96.0
1866.....	125.0	194.6	113.6	126.8	114.0	126.6	113.7	154.2	141.8	90.0
1867.....	150.0	166.9	122.7	126.8	117.4	136.7	113.7	158.3	148.1	
1868.....	150.0	153.1	131.8	118.8	109.9	136.7	113.7	148.2	148.1	80.0
1869.....	150.0	168.5	131.8	100.0	115.7	126.6	113.7	147.0	158.2	80.0
1870.....	175.0	173.1	120.9	95.1	124.0	126.6	128.2	145.8	158.2	80.0
1871.....	175.0	173.1	136.4	99.1	124.0	126.6	128.2	141.7	158.2	80.0
1872.....	175.0	134.6	136.4	99.1	124.0	122.8	128.2	147.0	158.2	80.0
1873.....	175.0	177.7	136.4	104.0	144.6	131.6	128.2	147.6	158.2	80.0
1874.....	150.0	178.5	115.5	88.4	140.5	112.0	108.5	151.8	135.4	80.0
1875.....	167.0	176.2	136.4	104.0	165.3	131.6	128.2	147.6	158.2	80.0
1876.....	167.0	175.4	136.4	104.0	165.3	122.2	128.2	134.5	158.2	80.0
1877.....	175.0		101.8	99.1	129.8	113.3	128.2	137.5	126.6	80.0
1878.....	175.0	151.5	120.9	99.1	129.8	131.0	128.2	138.7	126.6	80.0
1879.....	175.0	153.8	120.9	104.0	129.8	131.0	128.2	138.1	126.6	80.0
1880.....	150.0	153.8	116.4	133.9	113.2	124.1	128.2	133.9	131.0	80.0
1881.....	150.0	164.6	116.4	133.9	113.2	124.1	128.2	138.7	131.0	84.0
1882.....	150.0	164.6	116.4	133.9	113.2	124.1	128.2	137.5	131.0	84.0
1883.....	150.0	184.6	116.4	133.9	113.2	124.1	128.2	139.3	131.0	84.0
1884.....	150.0	184.6	116.4	133.9	113.2	124.1	149.6	145.2	148.7	80.0
1885.....	167.0	184.6	136.4	133.9	120.2	124.1	128.2	142.9	145.6	84.0
1886.....	167.0	185.4	136.4	133.9	124.0	126.6	128.2	139.3	148.7	84.0
1887.....	167.0	185.4	136.4	147.3	124.0	126.6	128.2	142.9	145.6	84.0
1888.....	167.0	186.2	136.4	149.1	124.0	126.6	128.2	139.9	145.6	100.0
1889.....	167.0	186.2	136.4	149.1	124.0	126.6	128.2	139.3	145.6	100.0
1890.....	167.0	182.3	136.4	149.1	124.0	126.6	128.2	138.1	145.6	100.0
1891.....	167.0	179.2	136.4	148.2	124.0	126.6	128.2	138.1	145.6	100.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	88. Handers- in.	88. Laborers, dye- house.	86. Loom fixers.	87. Loom fixers.	86. Overseers, carding depart- ment.	87. Over- seers, carding depart- ment.	88. Over- seers, carding depart- ment.	86. Overseers, dye- house.	87. Over- seers, dye- house.
1840									
1841									
1842									
1843									
1844									
1845									
1846									
1847									
1848									
1849									
1850	91.3	65.6					100.0		
1851	91.3	65.6					100.0		
1852	91.3	65.6					100.0		
1853	91.3	69.8					97.1		
1854	91.3	69.8					100.0		
1855	100.0	69.8					100.0		
1856	100.0	74.0					100.0		
1857	100.0	74.0					100.0		
1858	100.0	82.3					100.0		
1859	100.0	100.0		100.0	66.5	100.0	100.0	111.1	75.0
1860	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0	125.0	115.0	100.0	100.0	75.0
1862	100.0	100.0	93.2	140.0	87.5		100.0	83.3	112.5
1863	108.7	100.0	113.2	122.4	150.0	115.0	142.9	83.3	118.8
1864	108.7	95.8	176.0	126.8	150.0		157.1	125.0	137.5
1865	108.7	104.2	160.0	164.0	180.0	137.5	200.0	166.7	150.0
1866	108.7	104.2	150.0	191.6	190.0	150.0	200.0	166.7	175.0
1867	108.7	104.2	153.2	190.0	175.0	150.0	228.6	166.7	175.0
1868	108.7	104.2	146.8	152.4	157.5	150.0	228.6	180.6	150.0
1869	108.7	104.2	140.0	147.6	162.5	150.0	228.6	208.3	150.0
1870	108.7	96.4	145.2	146.4	175.0	150.0	257.1	208.3	150.0
1871	108.7	86.5	139.2	162.4	175.0	150.0	200.0	222.2	175.0
1872	108.7	86.5	137.6	164.4	200.0	200.0	200.0	222.2	150.0
1873	108.7	86.5	144.0	160.8	200.0	200.0	228.6	222.2	150.0
1874	108.7	86.5	162.4	162.0	162.5	200.0	194.3	111.1	150.0
1875	108.7	95.8	164.0	164.4	175.0	200.0	200.0	138.9	150.0
1876	108.7	95.8	160.0	154.8	162.5	200.0	180.0	138.9	150.0
1877	108.7	95.8	164.0		175.0		180.0	152.8	
1878	108.7	95.8	170.0	140.0	175.0	175.0	180.0	166.7	112.5
1879	108.7	95.8	160.0	140.0	162.5	175.0	180.0	166.7	112.5
1880	125.0	114.6	156.0	140.0	150.0	175.0	228.6	166.7	112.5
1881	127.2	114.6	160.0	153.6	162.5	175.0	228.6	180.6	125.0
1882	127.2	114.6	173.6	153.6	162.5	175.0	228.6	194.4	137.5
1883	127.2	114.6	173.6	152.4	162.5	175.0	285.7	208.3	137.5
1884	127.2	114.6	176.0	154.4	162.5	175.0	285.7	236.1	137.5
1885	130.4	114.6	176.0	153.2	162.5	175.0	285.7	236.1	137.5
1886	130.4	114.6	176.0	154.4	162.5	175.0	257.1	236.1	137.5
1887	130.4	114.6	140.8	157.6	162.5	212.5	285.7	236.1	175.0
1888	130.4	114.6	156.8	166.8	162.5	212.5	257.1	236.1	125.0
1889	130.4	114.6	166.4	160.0	200.0	175.0	285.7	236.1	112.5
1890	130.4	114.6	173.2	140.4	200.0	212.5	285.7	250.0	150.0
1891	130.4	114.6	171.6	163.6	200.0	212.5	285.7	236.1	150.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	88. Over- seers, dye- house.	86. Over- seers, finishing depart- ment.	88. Over- seers, finishing depart- ment.	86. Over- seers, full- ing and gigging depart- ment.	88. Over- seers, spinning depart- ment.	86. Over- seers, weaving depart- ment.	87. Over- seers, weaving depart- ment.	88. Over- seers, weaving depart- ment.	88. Pickers.
1840									
1841									
1842									
1843									
1844									
1845									
1846									
1847									
1848									
1849									
1850	100.0		100.0		81.2			94.0	82.6
1851	100.0		100.0		81.2			94.0	82.6
1852	100.0		100.0		81.2			94.0	82.6
1853	100.0		100.0		84.2			94.0	89.3
1854	100.0		100.0		84.2			94.0	89.3
1855	100.0		100.0		91.0			94.0	97.5
1856	100.0		100.0		91.0			100.0	97.5
1857	100.0		100.0		91.0			100.0	97.5
1858	100.0		100.0		94.0			100.0	100.0
1859	100.0	90.9	100.0	90.9	100.0	88.7	114.3	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	104.8	100.0	100.0	109.1	109.8	100.0	100.0	106.8	100.0
1862	104.8	100.0	100.0	109.1	112.8	116.7	114.3	106.8	100.0
1863	119.8	218.2	100.0	109.1	125.6	116.7	114.3	112.8	109.9
1864	119.8	218.2	111.3	83.6	150.4	133.3		125.6	117.4
1865	119.8	261.8	111.3	145.5	150.4	176.7	171.4	137.6	124.0
1866	119.8	261.8	111.3	120.0	150.4	200.0	228.6	150.4	124.0
1867	134.7	261.8	133.3	120.0	200.8	200.0	228.6	150.4	124.0
1868	134.7	236.4	133.3		150.4	183.3	171.4	150.4	124.0
1869	149.7	236.4	133.3		169.2	200.0	171.4	150.4	111.6
1870	149.7	181.8	150.0	200.0	206.8	200.0	200.0	169.2	103.3
1871	179.6	181.8	183.3	200.0	206.8	200.0	171.4	169.2	103.3
1872	149.7	181.8	216.7	200.0	206.8	200.0	200.0	176.7	103.3
1873	149.7	200.0	216.7	200.0	206.8	200.0	200.0	176.7	103.3
1874	149.7	200.0	183.3	200.0	175.9	200.0	200.0	176.7	87.6
1875	149.7	163.6	216.7	200.0	188.0	200.0	200.0	188.0	103.3
1876	149.7	163.6	216.7	163.6	206.8	200.0	228.6	206.8	103.3
1877	149.7	163.6	180.0	163.6	169.2	200.0		225.6	82.6
1878	149.7	163.6	166.7	181.8	169.2	200.0	171.4	188.0	82.6
1879	149.7	218.2	166.7	181.8	169.2	200.0	185.7	184.2	82.6
1880	224.6	218.2	150.0	181.8	206.8	200.0	185.7	178.2	92.1
1881	224.6	218.2	133.3	181.8	206.8	200.0	200.0	178.2	92.1
1882	224.6	254.5	141.3	181.8	206.8	200.0	200.0	225.6	92.1
1883	239.5	254.5	166.7	181.8	244.4	200.0	200.0	244.4	92.1
1884	269.5	290.9	266.7	181.8	244.4	200.0	171.4	225.6	95.0
1885	299.4	290.9	166.7	181.8	244.4	200.0	171.4	244.4	95.0
1886	299.4	290.9	200.0	181.8	244.4	200.0	171.4	244.4	95.0
1887	299.4	290.9	250.0	181.8	244.4	200.0	171.4	244.4	95.0
1888	299.4	254.5	250.0	181.8	244.4	200.0	171.4	244.4	95.0
1889	299.4	254.5	250.0	181.8	225.6	200.0		244.4	95.0
1890	299.4	254.5	250.0	181.8	225.6	200.0	171.4	244.4	95.0
1891	299.4	254.5	250.0	181.8	225.6	200.0	171.4	244.4	95.0

TABLE 37.—*Rates of wages for 52 years—Relative wages—Continued.*

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Years.	88. Press- men.	88. Scour- ers.	86. Second hands.	88. Second hands.	88. Section hands.	86. Shear- ers.	88. Shear- ers.	86. Sorters.	86. Speck- ers.	88. Spin- ners, jack.	86. Spin- ners, jack and mule.
1840											
1841											
1842											
1843											
1844											
1845											
1846											
1847											
1848											
1849											
1850	100.0	100.0		92.1	100.0		100.0			96.8	
1851	100.0	100.0		92.1	100.0		100.0			96.8	
1852	100.0	100.0		92.1	100.0		100.0			96.8	
1853	100.0	100.0		93.9	100.0		100.0			100.0	
1854	100.0	100.0		93.9	100.0		100.0			100.0	
1855	100.0	100.0		93.9	100.0		100.0			100.0	
1856	100.0	100.0		95.2	100.0		100.0			100.0	
1857	100.0	100.0		98.7	100.0		100.0			100.0	
1858	100.0	100.0		100.0	100.0		100.0			100.0	
1859	100.0	100.0	93.3	100.0	100.0	100.0	100.0	133.3		100.0	80.0
1860	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0
1861	100.0	106.0	97.8	101.7	100.0	114.5	100.0	100.0		100.0	100.0
1862	100.0	106.0	105.6	103.9	100.0	114.5	100.0	100.0	100.0	100.0	95.2
1863	100.0	106.0	119.4	118.8	112.5	122.9	100.0	120.0	108.0	105.3	123.8
1864	104.0	110.8	106.7	132.3	100.0	152.7	104.0	150.0		125.3	128.6
1865	108.0	110.8	144.4	132.3	125.0	213.7	108.0	156.7	140.0	123.2	160.0
1866	117.0	110.8	150.0	132.3	133.0	209.9	117.0	166.7	126.0	126.3	171.4
1867	117.0	115.7	188.9	134.9	150.0	213.7	117.0	166.7	184.0	137.9	183.8
1868	117.0	120.5	152.8	127.9	150.0	183.2	117.0	140.3	250.0	133.7	130.5
1869	125.0	132.5	166.7	119.2	175.0	196.9	125.0	129.7	250.0	136.8	175.2
1870	125.0	150.6	180.6	118.8	191.5	204.6	125.0	145.7	270.0	141.1	162.4
1871	125.0	150.6	180.6	126.2	200.0	200.8	125.0	145.7	270.0	140.0	177.1
1872	125.0	150.6	186.1	133.2	200.0	204.6	125.0	145.7	270.0	138.9	176.2
1873	125.0	150.6	186.1	155.0	204.0	229.0	125.0	143.3	200.0	135.8	150.0
1874	107.0	134.9	186.1	135.4	173.5	209.9	107.0	145.7		138.9	137.1
1875	125.0	134.9	180.6	138.4	204.0	189.3	125.0	148.7		140.0	142.9
1876	125.0	134.9	147.2	138.4	204.0	193.1	125.0	143.0		134.7	151.4
1877	100.0	134.9	138.9	125.8	200.0	196.9	100.0	130.7		136.8	137.1
1878	100.0	134.9	147.2	125.8	200.0	190.1	100.0	135.7		135.8	144.8
1879	100.0	134.9	138.9	122.7	200.0	190.1	100.0	127.3		130.5	131.0
1880	110.0	135.5	144.4	129.7	200.0	190.8	110.0	142.0	176.0	130.5	142.9
1881	120.0	136.7	166.7	129.7	196.0	198.5	110.0		178.0	132.6	142.9
1882	120.0	136.7	180.6	133.6	196.0	206.1	110.0	141.0	164.0	129.5	142.9
1883	120.0	135.5	192.8	150.7	200.0	206.1	111.5	183.3	174.0	129.5	
1884	125.0	135.5	192.8	171.6	200.0	206.1	111.5	153.3	180.0	134.7	115.7
1885	125.0	144.6	186.1	131.0	200.0	206.1	111.5	117.7	164.0	131.6	119.0
1886	125.0	141.6	186.1	141.9	200.0	206.1	111.5	183.3	164.0	131.6	119.0
1887	125.0	141.6	192.8	141.9	200.0	206.1	111.5	183.3	164.0	131.6	119.0
1888	125.0	141.6	192.8	141.9	200.0	206.1	111.5	148.3	164.0	133.7	119.0
1889	125.0	141.6	166.7	141.9	200.0	206.1	111.5	183.3	164.0	132.6	106.7
1890	125.0	141.6	173.9	149.3	200.0	206.1	111.5	137.7	164.0	133.7	164.8
1891	125.0	141.6	194.4	149.3	200.0	206.1	111.5	135.0	164.0	132.6	124.8

TABLE 37.—*Rates of wages for 52 years—Relative wages—Concluded.*

WOOLLEN GOODS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	86. Spool- ers.	88. Twist- ers.	88. Wash- ers.	88. Waste sorters.	86. Watch- men.	88. Watch- men.	86. Weavers.	88. Weavers.	86. Yarn carriers
1840									
1841									
1842									
1843									
1844									
1845									
1846									
1847									
1848									
1849									
1850		100.0	90.2	85.9				75.3	
1851		100.0	90.2	85.9				77.2	
1852		100.0	90.2	85.9				85.2	
1853		100.0	90.2	85.9				86.4	
1854		100.0	95.7	85.9				84.0	
1855		100.0	95.7	85.9				80.2	
1856		100.0	95.7	90.2				89.5	
1857		100.0	95.7	90.2				93.2	
1858		100.0	100.0	90.2				92.0	
1859	70.8	100.0	100.0	90.2			53.3	97.5	89.9
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	113.8	100.0	100.0	100.0	100.0	100.0	127.2	104.3	
1862	101.5	100.0	108.7	100.0	100.0	100.0	123.3	108.0	
1863	127.7	100.0	101.1	108.7	100.0	100.0	149.4	113.0	
1864	101.5	106.0	127.2	108.7	125.0	100.0	134.4	117.3	
1865	81.5	123.9	131.5	121.7	150.0	104.8	175.6	125.9	133.3
1866	116.9	137.3	135.9	135.9	175.0	114.3	160.0	134.6	181.2
1867	140.0	137.3	144.6	135.9	175.0	128.6	147.2	144.4	
1868	138.5	137.3	135.9	135.9	150.0	128.6	131.1	142.0	144.9
1869	138.5	137.3	135.9	135.9	150.0	128.6	161.1	143.2	202.9
1870	129.2	149.3	135.9	135.9	150.0	133.3	139.4	151.2	181.2
1871	129.2	149.3	135.9	135.9	150.0	133.3	136.7	154.3	181.2
1872	116.9	149.3	135.9	135.9	150.0	128.6	133.9	158.6	144.9
1873	143.1	149.3	135.9	144.6	150.0	138.1	135.0	153.7	202.9
1874	101.5	126.9	116.3	122.8	175.0	138.1	149.4	159.3	231.9
1875	138.5	149.3	135.9	144.6	175.0	138.1	151.1	158.6	199.3
1876	107.7	149.3	135.9	144.6	165.0	133.3	142.8	158.6	199.3
1877	120.0	134.3	108.7	135.9	165.0	138.1	132.8	160.5	199.3
1878	98.5	130.6	108.7	135.9	147.5	138.1	144.4	164.2	199.3
1879	100.0	130.6	108.7	135.9	147.5	138.1	133.9	161.7	231.9
1880	96.9	123.1	122.3	135.9	150.0	138.1	136.1	158.0	253.6
1881	120.0	121.6	122.3	135.9	150.0	138.1	143.3	159.9	253.6
1882	127.7	121.6	122.3	135.9	150.0	142.9	143.3	158.6	253.6
1883	123.1	122.4	122.3	135.9	150.0	142.9	177.8	157.4	268.1
1884	130.8	122.4	126.1	148.9	150.0	142.9	163.9	160.5	268.1
1885	124.6	123.9	126.6	148.9	150.0	152.4	158.3	159.9	268.1
1886	129.2	126.9	126.6	148.9	150.0	152.4	162.8	160.5	268.1
1887	147.7	132.1	126.6	148.9	157.5	152.4	192.8	159.9	268.1
1888	160.0	132.1	126.6	148.9	137.5	152.4	169.4	161.7	224.6
1889	120.0	132.1	126.6	148.9	135.5	152.4	170.0	164.8	224.6
1880	120.0	132.1	126.6	148.9	143.5	152.4	187.8	161.1	268.1
1891	115.4	132.1	126.1	148.9	135.5	152.4	176.1	165.4	268.1

The preceding table shows the entire movement of wages in currency. Each industry is represented by several quotations, covering the various occupations. It will be noticed that some occupations figure with a number of quotations. In a rough way it is evident that the number of quotations increases with the importance of the occupation in the industry.

Some of the main features of Table 37 must be summarized both as to the state of wages in 1891, and also to their course throughout the period investigated, if we would gather from the table what is contained in it. It will be in order to observe first the wages of 1891. The briefest glance at the table shows that in the vast majority of cases the increase has been quite marked. There are occasional instances where wages have declined, but they are very few. All the facts relating to the wages in 1891 are brought out in Table 38, which shows the measure of the advance or decline.

TABLE 38.—*Changes in wages, 1891 compared with 1860.*

Industries.	No. of quotations.	Decrease.		Uniform.	Increase.				
		25 to 50 per cent.	Less than 25 per cent.		Less than 25 per cent.	25 to 50 per cent.	50 to 75 per cent.	75 to 100 per cent.	100 per cent or over.
Agricultural implements.....	5	.....	.....	.....	2	2	.....	1	.....
Ale, beer, and porter.....	5	.....	.....	.....	.....	1	.....	2	2
Books and newspapers.....	21	.....	1	.....	4	7	5	3	1
Building trades.....	39	1	.....	.....	2	5	9	12	10
Carriages and wagons.....	4	.....	.....	.....	.....	.....	.....	.....	4
City public works.....	23	.....	.....	.....	1	5	7	8	2
Cotton goods.....	131	1	6	.....	16	35	21	23	29
Dry goods (stores).....	3	.....	.....	.....	.....	1	1	.....	1
Ginghams.....	30	.....	.....	.....	3	11	8	7	1
Groceries (stores).....	2	.....	.....	.....	.....	.....	1	.....	1
Illuminating gas.....	22	.....	.....	.....	.....	3	10	7	2
Leather.....	16	.....	.....	2	3	6	4	.....	1
Lumber.....	5	.....	.....	.....	.....	1	1	3	.....
Metals and metallic goods.....	130	1	4	2	14	47	42	12	8
Paper.....	7	.....	.....	.....	.....	.....	4	.....	3
Railroads.....	11	.....	.....	.....	3	1	7	.....	.....
Sidewalks.....	4	.....	.....	1	.....	.....	.....	.....	3
Spice.....	5	1	.....	.....	1	.....	1	1	1
Stone.....	19	.....	.....	.....	.....	8	6	1	4
White lead.....	3	.....	.....	.....	1	1	1	.....	.....
Woollen goods.....	58	.....	1	1	7	19	10	6	14
Total.....	543	4	12	6	57	153	138	86	87

The most striking fact of the table is the insignificant number of falling or stationary wages. They are, in all, only 22 out of a total of 543, or about 4 per cent of the whole number. A further fact of interest is that the number of cases in which wages advanced 50 per cent or more forms a majority of all. It is significant that in 87 cases wages have doubled since 1860.

So much for the individual series. It remains to examine them in combination. If we average all the quotations, giving each an equal weight in the result, we find that wages stood at 160.7 in 1891 as compared with 1860, while in 1840 they stood at 87.7 as compared with the same year.

In Table 39 we present the averages by industries, and for the total giving each quotation equal force in determining the result.

TABLE 39.—*Rates of wages for 52 years—Relative wages, by industries.*

GENERAL AVERAGE OF WAGES.

Year.	Agri- cultural imple- ments.	Ale, beer, and porter.	Books and news- papers.	Build- ing trades.	Car- riages and wagons.	City public works.	Cotton goods.	Dry goods.	Ging- hams.	Grocer- ies.	Illumi- nating gas.
1840				85.0	100.0		86.0				92.7
1841				85.0	100.0		80.6				94.3
1842			68.6	86.2	100.0		87.5				91.8
1843		78.2	72.3	84.7	100.0		87.6				93.1
1844		68.8	73.8	85.0	100.0		85.7				93.4
1845			74.8	86.6	100.0		86.6				96.4
1846			77.3	88.9	100.0		90.8				93.8
1847			78.2	92.6	100.0		91.9				95.2
1848			81.6	92.0	100.0		93.4				96.6
1849			85.3	89.6	100.0		94.5		94.2		93.7
1850			89.1	86.2	100.0		93.9	102.7	98.1		94.6
1851			80.3	87.9	100.0		87.7	102.7	94.5		94.6
1852			82.1	88.7	100.0		87.9	102.7	94.5		92.9
1853			84.7	90.6	100.0		90.4	102.7	94.6		95.3
1854		98.8	86.8	93.4	100.0	102.1	94.5	102.7	97.0		98.1
1855		84.5	88.9	95.7	100.0	103.1	98.7	102.7	99.0	100.0	100.5
1856		90.6	86.1	96.5	100.0	100.2	101.2	102.7	101.1	100.0	99.4
1857	98.0	93.0	92.0	98.7	100.0	102.1	102.0	102.7	101.9	100.0	99.5
1858	103.1	96.0	98.0	95.8	100.0	97.5	96.9	102.7	101.9	100.0	99.0
1859	94.9	97.2	97.2	100.8	100.0	102.5	98.6	100.0	102.9	100.0	100.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	102.1	105.3	96.6	100.4	100.0	98.4	98.9		101.2	100.0	100.9
1862	99.8	115.4	98.9	106.3	169.9	97.8	99.2	100.0	102.8	145.2	101.6
1863	105.5	116.1	103.5	119.7	169.9	108.7	106.0	126.9	104.4	159.5	113.7
1864	111.7	127.8	114.0	143.7	169.9	135.8	122.3	126.9	106.7	159.5	141.6
1865	141.9	134.0	135.0	161.1	169.9	150.8	134.7	135.7	123.2	159.5	164.0
1866	156.8	157.7	139.2	170.0	169.9	154.4	153.2	135.7	146.0	159.5	171.0
1867	155.6	158.9	145.4	185.1	169.9	165.0	160.4	135.7	151.5	159.5	172.8
1868	152.3	163.9	156.0	185.5	169.9	169.9	160.9	135.7	153.7	159.5	182.9
1869	151.5	168.3	157.7	189.2	179.9	171.4	161.8	134.3	153.1	159.5	188.0
1870	152.6	168.5	156.1	185.5	179.9	172.9	160.6	134.3	154.2	147.5	186.1
1871	152.1	168.1	159.8	182.7	179.9	175.3	165.3	134.3	161.9	147.5	188.9
1872	154.0	169.1	159.4	183.3	179.9	182.4	169.0	132.8	164.2	147.5	189.4
1873	152.4	172.4	164.0	179.4	179.9	177.5	167.2	132.8	165.5	147.5	207.0
1874	157.1	178.2	159.3	178.1	179.9	179.5	155.8	132.8	163.3	147.5	201.7
1875	158.5	174.6	159.2	169.2	179.9	178.8	150.3	132.8	158.2	157.2	193.7
1876	141.3	159.4	155.9	158.6	179.9	168.0	142.1	132.8	156.9	157.2	190.3
1877	129.4	159.4	150.7	146.3	179.9	155.1	135.5	132.8	149.8	157.2	180.1
1878	130.6	179.2	145.6	140.7	179.9	141.9	135.3	134.0	148.5	159.5	174.2
1879	128.1	171.7	141.9	137.9	179.9	138.7	136.2	134.0	147.3	159.5	159.4
1880	124.9	176.2	140.7	142.7	202.4	141.5	139.9	134.0	143.8	159.5	154.3
1881	124.6	182.4	141.3	160.1	202.4	145.5	144.8	134.0	146.0	159.5	158.1
1882	133.4	183.7	139.0	165.1	202.4	151.9	146.8	134.0	147.5	159.5	163.2
1883	139.8	158.5	146.6	166.0	202.4	158.4	146.5		148.9	159.5	168.3
1884	137.7	177.6	142.6	168.5	202.4	162.0	146.6	132.8	144.1	159.5	166.2
1885	132.0	179.9	145.2	169.9	202.4	162.8	143.5	132.8	137.4	194.7	166.4
1886	140.0	180.2	143.5	170.3	202.4	163.5	147.0	135.7	137.0	194.7	164.5
1887	140.3	202.1	144.0	170.1	202.4	163.8	150.6	135.7	143.3	194.7	163.8
1888	139.0	225.2	146.1	170.9	202.4	166.0	153.7	135.7	145.2	194.7	166.5
1889	137.8	224.7	148.7	170.1	202.4	164.8	157.0	162.6	146.5	194.7	166.8
1890	139.0	224.5	147.6	172.7	202.4	164.8	159.7	185.3	152.4	194.7	166.9
1891	137.9	224.7	148.6	172.5	202.4	164.6	165.1	183.6	152.7	194.7	167.7

TABLE 39.—*Rates of wages for 52 years—Relative wages, by industries—Concluded.*

GENERAL AVERAGE OF WAGES—Concluded.

Year.	Leath- er.	Lum- ber.	Metals and metallic goods.	Paper.	Rail- roads.	Side- walks.	Spice.	Stone.	White lead.	Wool- len goods.	All indus- tries.
1840		59.1	84.6		89.5			80.4	90.7		87.7
1841		56.3	78.9		90.1			87.4			88.0
1842		61.5	94.2		91.2	87.5		79.2	73.8		87.1
1843		70.7	85.1		90.6	87.5		71.8	73.8		86.6
1844		76.0	88.5		89.0	87.5		76.5	73.8		86.5
1845		89.9	83.3		89.6	87.5		80.2	89.5		86.8
1846		92.8	85.7		89.9	87.5		97.8	91.8		89.3
1847		93.8	89.2		92.0	87.5		85.9	89.3		90.8
1848		100.7	89.4		91.8	87.5		82.9	89.3		91.4
1849		97.4	91.5		90.6	87.5		79.2	83.9		92.5
1850		91.8	88.8		92.5	100.0		93.6	88.6	94.0	92.7
1851		91.3	88.5		91.5	100.0		93.8	93.7	94.1	90.4
1852		90.7	89.9		90.0	100.0		96.1	94.2	94.3	90.8
1853		95.3	89.9		91.2	100.0		99.7	93.9	94.9	91.8
1854		99.0	95.8		96.8	100.0		103.7	100.9	95.2	95.8
1855		100.0	98.6		97.5	100.0		98.8	94.5	95.4	98.0
1856	88.9	96.3	100.1		96.9	100.0		103.1	97.6	96.9	99.2
1857	84.4	90.8	101.7		96.7	100.0		103.3	96.6	97.4	99.9
1858	93.2	95.2	100.3		97.0	100.0		101.9	98.8	98.5	98.5
1859	102.6	95.5	98.4	97.6	98.6	100.0		100.9	98.3	91.7	99.1
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	110.6	103.6	102.2	100.0	103.3	100.0	100.4	90.7	101.4	103.1	100.8
1862	123.4	107.2	102.8	89.5	101.4	100.0	114.0	91.5	104.8	103.6	102.9
1863	138.4	131.8	106.5	107.2	103.0	112.6	98.5	109.5	109.9	111.7	110.5
1864	153.7	144.6	121.3	108.9	111.7	137.5	106.6	135.7	120.6	120.7	125.6
1865	160.4	153.2	144.9	143.6	133.0	175.0	134.9	146.8	130.3	137.3	143.1
1866	158.1	154.2	148.0	153.9	142.1	187.5	145.9	152.5	131.9	146.1	152.4
1867	151.7	157.1	151.2	161.3	150.7		125.5	159.3	135.2	150.5	157.6
1868	150.7	163.7	153.6	171.4	154.2		129.3	163.8	134.9	144.0	159.2
1869	152.1	165.6	156.3	171.9	157.2	212.5	118.6	169.8	154.5	149.1	162.0
1870	151.6	169.0	157.1	171.1	164.8	212.5	143.9	168.8	119.0	154.5	162.2
1871	153.4	168.1	155.6	173.9	164.4	200.0	122.2	169.9	136.1	155.1	163.6
1872	153.3	172.6	157.7	176.5	164.1	200.0	157.2	173.0	128.9	156.1	166.0
1873	154.9	177.7	160.2	190.1	165.3	200.0	149.2	171.3	140.0	158.2	167.1
1874	153.0	179.5	157.2	181.8	154.5	181.3	143.5	166.7	144.8	148.1	161.5
1875	141.9	171.8	154.2	191.9	157.4	162.5	156.2	161.3	144.8	154.7	158.4
1876	136.4	173.0	149.1	207.1	147.4	150.0	161.1	153.8	136.4	151.8	152.5
1877	136.8	176.8	143.8	167.6	141.9	150.0	160.9	138.9	133.0	142.1	144.9
1878	139.1	177.9	140.6	145.0	136.3	150.0	162.7	137.4	113.0	144.0	142.5
1879	128.9	175.4	134.6	165.3	137.9	150.0	157.1	129.6	119.0	145.0	139.9
1880	131.3	173.3	134.3	158.5	143.8	150.0	151.6	128.7	117.4	151.6	141.5
1881	130.8	176.8	139.0	168.1	148.9	150.0	153.0	136.1	119.7	153.8	146.5
1882	131.6	175.3	144.0	170.2	146.0	181.3	144.2	149.5	124.4	155.7	149.9
1883	133.7	175.4	147.2	181.4	149.4	181.3	155.2	147.4	135.2	163.6	152.7
1884	134.3	169.9	147.0	178.2	147.2	181.3	158.8	150.1	121.1	166.7	152.7
1885	128.2	170.3	143.0	178.8	155.1	181.3	158.2	150.4	129.3	163.1	150.7
1886	132.0	169.6	139.6	181.5	146.5	181.3	156.0	152.5	135.4	165.3	150.9
1887	134.4	170.9	143.3	181.8	145.6	181.3	162.4	153.1	141.1	167.9	153.7
1888	134.9	170.6	144.6	179.1	149.1	181.3	161.0	156.8	140.6	165.6	155.4
1889	131.5	175.1	146.2	182.7	148.3	181.3	162.4	156.9	140.3	165.0	156.7
1890	132.4	176.7	148.0	175.2	147.0	181.3	164.0	161.9	140.8	168.0	158.9
1891	137.6	177.9	148.6	182.3	146.4	187.5	164.2	165.2	140.6	167.8	160.7

The range of variation in 1891 is all the way from 137.9 in agricultural implements to 224.7 in ale, beer, and porter. The average, which is not that of the twenty-one groups considered as such, but of the 543 quotations, is as noted above, 160.7.

In order to obtain a somewhat more exact statement of the general level of wages we have attempted to combine the figures given for each industry in such a way as to give to it a value proportionate to its importance. The measure of its importance is taken to be the number of persons engaged in each industry. So far as they were to be obtained the number of persons engaged in each industry at each census period is indicated in Table 40.

TABLE 40.—*Persons engaged in certain occupations in census years.*

	Occupation.	1840.	1850.	1860.	1870.	1880.
1	Agricultural implements.....		1, 313	2, 390	3, 811	4, 891
2	Ale, beer, and porter	12, 223	4, 854	6, 307	11, 246	16, 278
3	Books and newspapers.....	11, 523	14, 740	23, 106	40, 193	72, 726
4	Building trades	85, 501	277, 962	363, 995	559, 389	654, 677
5	Carriages and wagons		494	238	42, 464	49, 881
6	City public works*				14, 407	31, 601
7	Cotton goods.....	72, 119	34, 909	29, 212	111, 606	169, 771
8	Dry goods (clerks in stores)		101, 325	184, 485	222, 504	353, 444
9	Illuminating gas.....				2, 086	4, 695
10	Leather.....	26, 018	22, 310	13, 707	28, 702	29, 842
11	Lumber.....	22, 042	10, 070	15, 929	17, 752	30, 651
12	Metals and metallic goods	30, 497	45, 579	42, 965	81, 237	114, 539
13	Paper.....	4, 726	2, 379	5, 180	12, 469	21, 430
14	Railroads		4, 831	36, 567	154, 027	236, 058
15	Stone	7, 859	14, 076	19, 497	25, 831	32, 842
16	White lead †			752		2, 923
17	Woollen goods	21, 342	23, 903	23, 324	78, 158	117, 272

* Employés of government.

† Manufacture of chemicals.

The figures are taken from the census tables of occupations except for the years 1840 and 1850, when they were taken from the statistics of manufactures. The list here given does not cover all the industries of Table 39. Some of the latter, such as sidewalks and spice, are not of sufficient consequence to be specifically noted in the census tables. Gingham is included under cotton mills, and are not taken account of separately. Dry goods and groceries are both covered by the census term, clerks in stores, and the dry goods series has been taken as the basis of subsequent calculation. As will be seen from the above statement the census designations do not always cover exactly those of the Table 39. But they are sufficiently near to be used. It should be mentioned, however, that city public works in Table 39 stand for employés of governments in the census classification. This is perfectly fair, as the census classes employés distinct from officials and clerks. White lead in our table stands for all chemical manufacture.

The facts as given in the table relate to periods ten years distant. Between two enumerations great changes frequently take place. In order to meet this difficulty we have used the census figures for the first five years of each decade, while for the latter half we have taken the mean between the two censuses. Thus for 1845-'49 we use an average of the results of 1840 and 1850. This gives us a system of weights which is exhibited in Table 41.

TABLE 41.—*Relative importance of different industries.*

	Industry.	1840-'44.	1845-'49.	1850-'54.	1855-'59.	1860-'64.	1865-'69.	1870-'74.	1875-'79.	1880-'91.
1	Agricultural imple- ments.....			1	2	2	3	4	4	5
2	Ale, beer, and porter..	12	8	5	5	6	9	11	14	16
3	Books and newspapers	12	13	15	19	23	32	40	57	73
4	Building trades.....	86	182	278	321	364	462	559	607	655
5	Carriages and wagons..			1			21	42	46	50
6	City public works.....							14	23	32
7	Cotton goods.....	72	53	35	32	29	70	112	141	170
8	Dry goods (stores).....			101	143	185	203	223	288	353
9	Illuminating gas.....							2	3	5
10	Leather.....	26	24	22	18	14	21	29	29	30
11	Lumber.....	22	16	10	13	16	17	18	24	31
12	Metals and metallic goods.....	30	38	46	44	43	62	81	98	115
13	Paper.....	5	4	2	4	5	9	13	17	21
14	Railroads.....			5	21	37	95	154	195	236
15	Stone.....	8	11	14	17	20	23	26	29	33
16	White lead.....					1				3
17	Woollen goods.....	21	23	24	24	23	51	78	98	117
	Total.....	294	372	559	663	768	1,078	1,406	1,673	1,945

Here the number opposite each industry represents in thousands the number employed. The figures for 1890 being as yet untabulated we use the same weights after 1880. In making use of these weights the relative wage in each industry is multiplied by the appropriate weight and the sum of the results divided by the sum of the weights.

According to this method of calculation we secure results which are slightly different from those of Table 39. They are given for each year in Table 42 in comparison with the results reached by the method of simple averaging.

TABLE 42.—*Relative wages in all occupations, 1840-'91, grouped by different methods.*

Year.	Simple average.	Average according to impor- tance.	Year.	Simple average.	Average according to impor- tance.
1840.....	87.7	82.5	1866.....	152.4	155.6
1841.....	88.0	79.9	1867.....	157.6	164.0
1842.....	87.1	84.1	1868.....	159.2	164.9
1843.....	86.6	83.0	1869.....	162.0	167.4
1844.....	86.5	83.2	1870.....	162.2	167.1
1845.....	86.8	85.7	1871.....	163.6	166.4
1846.....	89.3	89.1	1872.....	166.0	167.1
1847.....	90.8	91.3	1873.....	167.1	166.1
1848.....	91.4	91.6	1874.....	161.5	162.5
1849.....	92.5	90.5	1875.....	158.4	158.0
1850.....	92.7	90.9	1876.....	152.5	151.4
1851.....	90.4	91.1	1877.....	144.9	143.8
1852.....	90.8	91.8	1878.....	142.5	140.9
1853.....	91.8	93.2	1879.....	139.9	139.4
1854.....	95.8	95.8	1880.....	141.5	143.0
1855.....	98.0	97.5	1881.....	146.5	150.7
1856.....	99.2	98.0	1882.....	149.9	152.9
1857.....	99.9	99.2	1883.....	152.7	159.2
1858.....	98.5	97.9	1884.....	152.7	155.1
1859.....	99.1	99.7	1885.....	150.7	155.9
1860.....	100.0	100.0	1886.....	150.9	155.8
1861.....	100.8	100.7	1887.....	153.7	156.6
1862.....	102.9	103.7	1888.....	155.4	157.9
1863.....	110.5	118.8	1889.....	156.7	162.9
1864.....	125.6	134.0	1890.....	158.9	168.2
1865.....	143.1	148.6	1891.....	160.7	168.6

It appears from this table that the wages of 1891 are slightly higher by the method of averaging by importance. They are somewhat over

two-thirds more than in 1860, and more than double what they were in 1840.

We may now turn our attention to the course of wages, as shown in Table 42. Whether we consider the first or the second column, we find a pretty steady advance during the period which preceded the war. After 1860 we observe the maximum wages by the first method in the year 1872. It is noteworthy that the effect of currency depreciation and the disturbed state of affairs was much more marked on prices than on wages. By the second method of calculation the maximum since 1860 is found in the year 1891. Wages reached a high point in the years 1871-'72. After 1873 there was a marked falling off. The ground then lost was gradually regained until to-day wages are at about the same point as they were in 1871-'72.

The movement in a general way is more clearly shown in Table 43, which reduces the foregoing to five-year periods.

TABLE 43.—*Relative wages in all occupations, by five-year periods, 1840-1891, grouped by different methods.*

Period.	Simple average.	Average according to importance.	Period.	Simple average.	Average according to importance.
1840-'44	87.2	82.5	1870-'74	164.1	165.8
1845-'49	90.2	89.6	1875-'79	147.6	146.7
1850-'54	92.3	92.6	1880-'84	148.7	152.2
1855-'59	98.9	98.5	1885-'89	153.5	157.8
1860-'64	108.0	111.4	1890-'91 (2 years).....	159.8	168.4
1865-'69	154.9	160.1			

This shows that during the war period the advance in wages was not commensurate with the advance in prices. The upward movement was imparted to wages later. Hence we see the wages in the period 1870-'74 exceed those of the preceding five years. Immediately following there was a considerable drop in wages, though thereafter the advance has been steady. In the years 1890-'91 wages stand as high as did currency wages in the years following 1870.

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HOURS OF LABOR.

The examination of the course of wages would be incomplete without a reference to the hours of labor. As our comparisons are based upon a day's work they would acquire a new significance if there were marked differences in the hours per day in the periods compared. In order to throw a light upon this point Table 44 has been prepared. It gives the average hours of labor in each industry for each of the occupations which figure in the former tables.

TABLE 44.—Average hours of labor, by industries, 1840-1891.

Year.	Agri- cultural imple- ments.	Ale, beer, and porter.	Books and news- papers.	Build- ing trades.	Car- riages and wagons.	City public works.	Cotton goods.	Dry goods.	Ging- hams.	Gro- ceries.	Illumi- nating gas.
1840				10.0	10.0		14.0				10.1
1841				10.0	10.0		14.0				10.1
1842			10.0	10.0	10.0		14.0				10.2
1843		12.0	10.0	10.0	10.0		13.6				10.2
1844		12.0	10.0	10.0	10.0		13.6				10.2
1845			10.0	10.0	10.0		13.6				10.2
1846			10.0	10.0	10.0		13.5				10.2
1847			10.0	10.0	10.0		13.5				10.2
1848			10.0	10.0	10.0		13.5				10.2
1849			10.0	10.0	10.0		13.5		11.2		10.3
1850			10.0	10.0	10.0		13.5	11.0	11.2		10.4
1851			10.0	10.0	10.0		13.1	11.0	11.2		10.4
1852			10.0	10.0	10.0		12.3	11.0	11.2		10.4
1853			10.0	10.0	10.0		12.2	11.0	11.2		10.4
1854		12.0	10.0	10.0	10.0	11.2	12.2	11.0	11.1		10.4
1855		12.0	10.0	10.0	10.0	10.9	12.2	11.0	11.1	11.0	10.4
1856		12.0	10.0	10.0	10.0	10.9	12.0	11.0	11.1	11.0	10.4
1857	10.0	12.0	10.0	10.1	10.0	10.4	12.0	11.0	11.1	11.0	10.4
1858	10.0	12.0	10.0	10.1	10.0	10.5	12.0	11.0	11.1	11.0	10.4
1859	10.0	12.0	10.0	10.1	10.0	10.5	12.2	11.0	11.1	11.0	10.5
1860	10.0	12.0	10.0	10.1	10.0	10.4	12.2	11.0	11.1	11.0	10.4
1861	10.0	12.0	10.0	10.1	10.0	10.4	11.6		11.1	11.0	10.5
1862	10.0	12.0	10.0	10.1	10.0	10.4	11.4	11.0	11.1	11.0	10.4
1863	10.0	12.0	10.0	10.1	10.0	10.5	11.3	11.0	11.1	11.0	10.5
1864	10.0	12.0	10.0	10.1	10.0	10.4	11.2	11.0	11.1	11.0	10.5
1865	10.0	12.0	10.0	10.0	10.0	10.4	11.2	11.0	11.1	11.0	10.4
1866	10.0	12.0	10.0	10.0	10.0	10.4	11.4	11.0	11.1	11.0	10.5
1867	10.0	12.0	10.0	10.0	10.0	10.4	11.4	11.0	11.1	11.0	10.5
1868	10.0	12.0	10.0	10.0	10.0	10.4	11.0	11.0	11.1	11.0	10.5
1869	10.0	12.0	10.0	10.0	10.0	10.4	11.0	11.0	11.1	11.0	10.5
1870	10.0	12.0	10.0	10.0	10.0	9.4	11.0	11.0	11.1	11.0	10.4
1871	10.0	12.0	10.0	10.0	10.0	9.3	11.0	11.0	11.1	11.0	10.4
1872	10.0	12.0	10.0	9.9	10.0	9.3	11.0	11.0	11.1	11.0	10.4
1873	10.0	12.0	10.0	9.9	10.0	9.4	11.0	11.0	11.1	11.0	10.4
1874	10.0	12.0	10.0	9.9	10.0	9.4	11.0	11.0	11.1	11.0	10.4
1875	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1876	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1877	10.0	12.0	10.0	9.9	10.0	9.3	10.3	11.0	10.1	11.0	10.4
1878	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1879	10.0	12.0	10.0	9.9	10.0	9.3	10.3	11.0	10.1	11.0	10.4
1880	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1881	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1882	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1883	10.0	12.0	10.0	9.9	10.0	9.4	10.3		10.1	11.0	10.4
1884	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1885	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1886	10.0	12.0	10.0	9.8	10.0	9.3	10.3	11.0	10.1	11.0	10.4
1887	10.0	12.0	10.0	9.7	10.0	9.3	10.0	11.0	10.1	11.0	10.4
1888	10.0	12.0	10.0	9.7	10.0	9.2	10.0	11.0	10.1	11.0	10.4
1889	10.0	12.0	10.0	9.6	10.0	9.3	10.0	11.0	10.1	11.0	10.4
1890	10.0	12.0	10.0	9.6	10.0	9.3	10.0	11.0	10.1	11.0	10.4
1891	10.0	12.0	10.0	9.4	10.0	9.3	10.0	11.0	10.1	11.0	10.4

TABLE 44.—Average hours of labor, by industries, 1840-1891—Concluded.

Year.	Leath- er.	Lum- ber.	Metals and metallic goods.	Paper.	Rail- roads.	Side- walks.	Spices.	Stone.	White lead.	Wool- len goods.	All indus- tries.
1840		12.0	10.0		10.0			10.0	9.3		11.4
1841		12.0	10.0		10.0			10.0			10.5
1842		12.0	10.0		10.0	10.3		10.3	9.3		11.4
1843		12.0	10.0		10.0	10.3		10.3	9.3		11.5
1844		12.0	10.3		10.0	10.3		10.3	9.3		11.6
1845		12.0	10.6		10.0	10.3		10.3	9.3		11.5
1846		12.0	10.6		10.0	10.3		10.5	9.3		11.4
1847		12.0	10.5		10.0	10.3		10.3	9.3		11.5
1848		11.0	10.4		10.0	10.3		10.3	9.3		11.3
1849		11.0	10.3		10.0	10.3		11.0	9.3		11.2
1850		11.0	10.3		10.0	10.3		11.0	9.3	14.0	11.5
1851		11.0	10.3		10.0	10.3		10.7	9.3	14.0	11.4
1852		10.7	10.3		10.0	10.3		10.0	9.3	14.0	11.2
1853		10.0	10.3		10.0	10.3		10.0	9.3	14.0	11.3
1854		10.0	10.2		10.0	10.3		10.1	9.3	14.0	11.1
1855		10.0	10.1		10.0	10.3		10.0	9.3	14.0	11.1
1856	11.0	10.0	10.1		10.0	10.3		10.0	9.3	14.0	11.0
1857	11.0	10.0	10.1		10.0	10.3		10.0	9.3	14.0	10.9
1858	11.0	10.8	10.1		10.0	10.3		10.0	9.3	14.0	11.0
1859	11.0	10.8	10.1	12.0	10.0	10.3		10.0	9.3	13.2	11.1
1860	11.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	9.3	12.7	11.0
1861	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	9.3	12.7	10.9
1862	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	9.3	12.7	10.8
1863	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	12.6	10.8
1864	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.0	12.7	10.8
1865	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	12.0	10.7
1866	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	12.0	10.8
1867	10.6	10.8	10.1	12.0	10.0		10.0	10.0	10.5	12.1	10.8
1868	10.6	10.8	10.1	12.0	10.0		10.0	10.0	10.5	11.5	10.6
1869	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.6
1870	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.5
1871	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.7	11.5	10.5
1872	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.7	11.5	10.5
1873	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.5
1874	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.5
1875	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.3
1876	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1877	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.6	10.3
1878	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1879	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1880	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1881	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1882	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1883	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.7	11.4	10.3
1884	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1885	10.0	10.8	10.1	12.0	10.0	9.4	10.0	10.0	10.5	11.4	10.3
1886	10.0	10.8	10.1	12.0	10.0	9.4	10.0	9.8	10.5	10.4	10.2
1887	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1888	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1889	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1890	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1891	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0

The figures here given apply to the same series of occupations for which the wages were given in the former tables. It will be observed that the variation is comparatively slight, and while in some few cases there has been no change between 1860 and 1891, in the greater number there has been a slight reduction. On the average, 11 hours per day in 1860 have given place to 10 in 1891. If we compare 1891 with 1840 we find a reduction of 1.4 hours in the daily average.

It is needless to point out the bearing of these figures upon the rate of wages. On the basis of wages per hour the 1891 wages would be still higher than those of former years than appears in the preceding discussion.

The reduction in the number of hours seems hardly so considerable as might have been expected. It must be remembered that our figures refer to certain picked establishments, where, in view of the complete organization at an early date, it is probable that shorter hours made

an earlier appearance than in the mass of work-shops. It may therefore be doubted whether these figures, absolutely correct as they are for the establishments in question, give a perfectly adequate picture of general conditions.

WAGES IN GOLD.

In the consideration of prices we concluded our discussion of the figures with a study of the relation of gold premium to the figures which had been given. In Table 45 we have reduced wages to the gold basis for the period 1862-1878 on the same plan followed in regard to prices.

TABLE 45.—*Relative wages in gold in all occupations, 1840-1891, grouped by different methods.*

Year.	Simple average.	Average according to importance.	Year.	Simple average.	Average according to importance.
1840	87.7	82.5	1866	108.8	111.1
1841	88.0	79.9	1867	117.1	121.8
1842	87.1	84.1	1868	114.9	119.1
1843	86.6	83.0	1869	119.5	123.5
1844	86.5	83.2	1870	133.7	136.9
1845	86.8	85.7	1871	147.8	150.3
1846	89.3	89.1	1872	152.2	153.2
1847	90.8	91.3	1873	148.3	147.4
1848	91.4	91.6	1874	145.0	145.9
1849	92.5	90.5	1875	140.8	140.4
1850	92.7	90.9	1876	135.2	134.2
1851	90.4	91.1	1877	136.4	135.4
1852	90.8	91.8	1878	140.5	139.0
1853	91.8	93.2	1879	139.9	139.4
1854	95.8	95.8	1880	141.5	143.0
1855	98.0	97.5	1881	146.5	150.7
1856	99.2	98.0	1882	149.9	152.9
1857	99.9	99.2	1883	152.7	159.2
1858	98.5	97.9	1884	152.7	155.1
1859	99.1	99.7	1885	150.7	155.9
1860	100.0	100.0	1886	150.9	155.8
1861	100.8	100.7	1887	153.7	156.6
1862	100.4	101.2	1888	155.4	157.9
1863	76.2	81.9	1889	156.7	162.9
1864	80.8	86.2	1890	158.9	168.2
1865	66.2	68.7	1891	160.7	168.6

From this table it appears that the advance in wages discovered in Table 42 after the war began was merely nominal. Gold rose in value more rapidly than wages advanced and as a result wages, measured in gold, fell off rapidly until in 1865 they stood at about one-third less than in 1860. The following year marked a change. From 1866 to the present time wages have shown a marked upward tendency. The wages of 1871 and 1872 are higher than in the following years. In fact, it was about ten years before the level of that period was again reached, the lowest point in the intervening period being the years 1876 and 1877. Since the early eighties, however, the advance in wages has been comparatively uniform.

RATES OF WAGES, COAL, IRON, GLASS, AND POTTERY INDUSTRIES.

An investigation supplementary to those of the Department of Labor was made by Mr. Jos. D. Weeks into the wages paid in the coal, iron, glass, and pottery industries. The results of his research are embodied in Table XIII of the report. Differing somewhat in form and method from the returns of the Table XII, it has been deemed advisable to keep the tables distinct in the analysis as well as in the report.

Table XIII gives the rates of wages in representative occupations in each industry. So far as the facts formed comparable series, they have been reduced to relative wages on the basis of 1860 in the following table:

TABLE 46.—*Relative wages for 52 years in the coal, iron, glass, and pottery industries.*

Year.	Anthracite coal, miners' wages, Eastern Pennsylvania.	Bar iron.							Green glass bottles.	
		Puddlers' earnings, Etna, Pa.	Puddlers' earnings, Duncan, Pa.	Average of puddlers' earnings.	Puddlers' helpers' earnings, Etna, Pa.	Puddlers' helpers' earnings, Duncan, Pa.	Average of puddlers' helpers' earnings.	Rollers' earnings, Duncan, Pa.	Blowers' earnings, 2-ounce, New Jersey.	Blowers' earnings, 4-ounce, New Jersey.
1840.....	111.1	138.2	114.4	126.3	139.1	113.9	126.5	90.0	76.2	81.8
1841.....	92.6	129.2	114.4	121.8	129.3	113.9	121.6	90.0	76.2	81.8
1842.....	92.6	117.2	114.4	115.8	118.0	113.9	116.0	90.0	76.2	81.8
1843.....	83.9	117.2	114.4	115.8	118.0	113.9	116.0	90.0	100.0	109.5
1844.....	79.7	117.2	114.4	115.8	118.0	113.9	116.0	90.0	111.9	119.1
1845.....	93.7	138.2	114.4	126.3	139.1	113.9	126.5	90.0	111.9	119.1
1846.....	100.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	123.8	134.1
1847.....	100.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	123.8	134.1
1848.....	100.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	116.7	113.6
1849.....	97.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	116.7	113.6
1850.....	100.0	112.4	100.0	106.2	112.8	100.0	106.4	78.8	116.7	113.6
1851.....	107.4	112.4	100.0	106.2	112.8	100.0	106.4	78.8	123.8	113.6
1852.....	100.0	112.4	86.1	99.3	112.8	85.1	99.0	78.8	123.8	113.6
1853.....	98.1	112.4	128.9	120.7	112.8	128.7	120.8	100.0	123.8	113.6
1854.....	119.2	112.4	128.9	120.7	112.8	128.7	120.8	100.0	107.1	102.3
1855.....	107.9	100.0	128.9	114.5	100.0	128.4	114.2	99.6	107.1	102.3
1856.....	104.2	100.0	143.3	121.7	100.0	142.6	121.3	108.8	107.1	102.3
1857.....	94.4	100.0	143.3	121.7	100.0	142.6	121.3	108.8	107.1	102.3
1858.....	74.8	87.3	100.0	93.7	88.0	100.0	94.0	93.8	107.1	102.3
1859.....	98.9	100.0	100.0	100.0	100.0	100.0	100.0	93.8	107.1	102.3
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	107.1	109.1
1862.....	110.2	118.5	130.6	124.6	119.2	130.2	124.7	118.8	107.1	109.1
1863.....	169.4	149.8	173.1	161.5	150.4	172.3	161.4	137.5	107.1	109.1
1864.....	223.6	196.6	240.3	218.5	197.4	239.1	218.3	162.5	160.0	159.1
1865.....	191.0	173.1	216.2	194.7	174.1	215.4	194.8	153.5	160.0	159.1
1866.....	179.3	213.7	240.3	227.0	214.3	239.6	227.0	161.3	250.0	236.4
1867.....	165.7	187.0	206.0	196.5	187.6	205.0	196.3	154.7	231.9	227.3
1868.....	239.0	167.5	240.3	203.9	168.4	239.6	204.0	177.2	231.9	227.3
1869.....	280.5	168.5	206.0	187.3	210.5	205.0	207.8	143.4	231.9	227.3
1870.....	233.4	155.1	206.0	180.6	193.2	205.0	199.1	140.6	231.9	227.3
1871.....	225.1	159.1	206.0	182.6	198.5	205.0	201.8	140.6	231.9	227.3
1872.....	212.2	180.9	243.3	212.1	225.7	241.9	233.8	164.5	231.9	227.3
1873.....	232.8	168.8	213.4	191.1	210.5	211.9	211.2	140.6	219.0	209.1
1874.....	232.1	149.1	182.1	165.6	186.5	181.7	184.1	122.5	206.7	197.3
1875.....	183.7	119.9	151.0	135.5	149.6	150.5	150.1	108.3	193.8	185.0
1876.....	174.7	118.0	142.3	130.2	147.4	141.6	144.5	101.3	169.5	165.9
1877.....	151.1	118.0	124.4	121.2	147.4	123.8	135.6	112.5	169.5	165.9
1878.....	160.3	118.0	124.4	121.2	147.4	123.8	135.6	98.4	169.5	165.9
1879.....	149.5	129.6	151.0	140.3	161.7	150.5	156.1	118.8	166.7	163.6
1880.....	178.7	140.4	170.5	155.5	175.3	169.9	172.6	132.3	231.9	227.3
1881.....	191.5	129.6	159.7	144.7	161.7	159.4	160.6	125.0	231.9	227.3
1882.....	189.6	129.6	159.7	144.7	161.7	159.4	160.6	125.0	231.9	227.3
1883.....	173.5	129.6	142.3	136.0	161.7	141.6	151.7	112.5	231.9	227.3
1884.....	173.5	129.6	124.4	127.0	161.7	123.8	142.8	98.4	231.9	227.3
1885.....	175.0	118.0	124.4	121.2	147.4	123.8	135.6	98.4	231.9	227.3
1886.....	178.5	125.1	135.8	130.5	156.4	135.6	146.0	105.6	219.5	217.3
1887.....	186.7	137.5	144.8	141.2	172.2	144.6	158.4	123.8	231.9	227.3
1888.....	180.4	137.5	135.8	136.7	172.2	135.6	153.9	115.9	231.9	227.3
1889.....	177.0	137.5	144.8	141.2	172.2	144.6	158.4	116.0	231.9	227.3
1890.....	177.0	137.5	144.8	141.2	172.2	144.6	158.4	123.8	231.9	227.3
1891.....	177.0	137.5	140.3	138.9	172.2	140.1	156.2	119.8	231.9	227.3

TABLE 46.—*Relative wages for 52 years, etc.*—Continued.

Year.	Green-glass bottles—concluded.				Iron ore.					
	Blowers' earnings, 8-ounce, New Jersey.	Blowers' earnings, pint, New Jersey.	Blowers' earnings, quart, New Jer- sey.	Average of blowers' earnings.	Miners' wages, Port Henry District, New York.	Miners' wages, Ox- ford, New Jersey.	Average of miners' wages.	Skilled laborers' wages, Cornwall, Pa.	Unskilled laborers' wages, Cornwall, Pa.	Blasters' and drill- ers' wages, New Jersey ore district.
1840.....	90.0	111.1	137.9	99.4	60.0	69.0	64.5	.....	.....	70.6
1841.....	90.0	111.1	137.9	99.4	60.0	67.0	63.5	.....	.....	70.6
1842.....	90.0	111.1	137.9	99.4	80.0	73.0	76.5	.....	.....	70.6
1843.....	110.0	134.8	164.1	123.7	80.0	73.0	76.5	.....	.....	70.6
1844.....	118.3	134.8	164.1	129.6	80.0	73.0	76.5	.....	.....	70.6
1845.....	118.3	134.8	164.1	129.6	80.0	73.0	76.5	.....	.....	70.6
1846.....	126.1	138.9	163.8	137.3	80.0	73.0	76.5	.....	.....	70.6
1847.....	126.1	138.9	163.8	137.3	75.2	77.0	76.1	.....	.....	70.6
1848.....	108.7	133.3	137.9	122.0	75.2	73.0	74.1	.....	.....	70.6
1849.....	108.7	133.3	137.9	122.0	75.2	69.0	72.1	.....	.....	70.6
1850.....	108.7	133.3	137.9	122.0	75.2	69.0	72.1	.....	.....	88.2
1851.....	108.7	133.3	129.3	121.7	80.0	69.0	74.5	.....	.....	94.1
1852.....	108.7	133.3	129.3	121.7	100.0	73.0	86.5	84.2	80.0	94.1
1853.....	108.7	133.3	129.3	121.7	100.0	92.0	96.0	84.2	80.0	94.1
1854.....	108.7	120.0	124.1	112.4	100.0	106.3	103.2	94.7	93.3	94.1
1855.....	108.7	120.0	124.1	112.4	100.0	100.0	100.0	94.7	93.3	94.1
1856.....	108.7	120.0	124.1	112.4	100.0	100.0	100.0	115.8	120.0	94.1
1857.....	108.7	120.0	124.1	112.4	100.0	106.2	103.1	115.8	120.0	94.1
1858.....	104.3	110.0	106.2	106.0	100.0	80.0	90.0	105.3	106.7	94.1
1859.....	104.3	110.0	106.2	106.0	100.0	100.0	100.0	100.0	100.0	117.6
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	114.8	133.3	132.8	119.4	100.0	90.0	95.0	105.3	106.7	94.1
1862.....	114.8	133.3	132.8	119.4	108.0	100.0	104.0	115.8	120.0	94.1
1863.....	114.8	133.3	132.8	119.4	112.0	125.0	118.5	126.3	133.3	135.3
1864.....	163.0	163.0	164.1	161.8	200.0	175.0	187.5	178.9	206.7	166.7
1865.....	163.0	163.0	164.1	161.8	120.0	187.5	153.8	178.9	186.7	188.2
1866.....	234.8	183.3	169.0	214.7	132.0	143.8	137.9	184.2	193.3	155.3
1867.....	217.4	203.7	193.1	214.7	164.0	143.8	153.9	189.5	200.0	171.8
1868.....	217.4	203.7	193.1	214.7	164.0	150.0	157.0	194.7	200.0	171.8
1869.....	217.4	203.7	193.1	214.7	164.0	150.0	157.0	194.7	200.0	171.8
1870.....	217.4	203.7	193.1	214.7	164.0	162.5	163.3	194.7	200.0	171.8
1871.....	217.4	203.7	193.1	214.7	164.0	150.0	157.0	194.7	200.0	164.7
1872.....	217.4	203.7	193.1	214.7	164.0	181.3	172.7	200.0	200.0	194.1
1873.....	217.4	192.6	186.2	204.9	184.0	212.5	198.3	215.8	220.0	176.5
1874.....	204.3	177.8	172.4	191.7	208.0	143.8	175.9	210.5	200.0	152.9
1875.....	191.3	166.7	163.8	180.1	140.0	125.0	132.5	184.2	166.7	117.6
1876.....	147.0	144.4	134.5	152.3	140.0	112.5	126.3	168.4	153.3	105.9
1877.....	147.0	144.4	134.5	152.3	120.0	100.0	110.0	168.4	153.3	91.0
1878.....	147.0	144.4	134.5	152.3	120.0	100.0	110.0	168.4	153.3	89.4
1879.....	156.5	144.4	134.5	153.1	120.0	93.8	106.9	168.4	153.3	105.9
1880.....	217.4	200.0	188.6	213.0	128.0	122.5	125.3	173.7	160.0	147.1
1881.....	217.4	200.0	188.6	213.0	140.0	125.0	132.5	194.7	186.7	129.4
1882.....	217.4	200.0	188.6	213.0	148.0	150.0	149.0	215.8	213.3	152.9
1883.....	217.4	200.0	188.6	213.0	140.0	125.0	132.5	215.8	213.3	129.4
1884.....	217.4	200.0	188.6	213.0	132.0	110.0	121.0	215.8	213.3	106.7
1885.....	217.4	200.0	188.6	213.0	120.0	88.0	104.0	200.0	193.3	105.9
1886.....	207.8	177.0	181.0	200.5	132.0	105.0	118.5	221.1	206.7	122.4
1887.....	217.4	200.0	188.6	213.0	140.0	120.0	130.0	231.6	220.0	132.5
1888.....	217.4	200.0	188.6	213.0	140.0	120.0	130.0	231.6	220.0	129.4
1889.....	217.4	200.0	188.6	213.0	132.0	120.0	126.0	231.6	220.0	125.1
1890.....	217.4	200.0	188.6	213.0	140.0	120.0	130.0	231.6	220.0	138.8
1891.....	217.4	200.0	188.6	213.0	132.0	120.0	126.0	221.1	206.7	122.9

TABLE 46.—*Relative wages for 52 years, etc.*—Concluded.

Year.	Metals and metallic goods.			Pig iron.		Pottery.		Window glass blow- ers' earnings, New Jersey.
	Moulders' wages, Quincy, Ill.	Cupolamen's wages, Quincy, Ill.	Melters' wages, Quincy, Ill.	Keepers' wages, Catasauqua, Pa.	Fillers' wages, Catasauqua, Pa.	Hollow ware press- ers' wages, New Jersey.	Handlers' wages, New Jersey.	
1840.....				54.1	47.4	70.0	66.7	88.0
1841.....				54.1	47.4	70.0	66.7	88.0
1842.....				54.1	47.4	70.0	66.7	88.0
1843.....				54.1	47.4	70.0	66.7	88.0
1844.....				65.4	62.0	70.0	66.7	88.0
1845.....				76.2	73.7	75.0	77.8	113.0
1846.....				76.8	72.3	75.0	77.8	113.0
1847.....				91.9	82.5	75.0	77.8	113.0
1848.....				90.3	81.8	72.5	80.6	113.0
1849.....				75.7	74.5	72.5	80.6	113.0
1850.....	100.0	100.0	100.0	89.2	78.1	72.5	80.6	120.5
1851.....	100.0	100.0	100.0	91.4	79.6	72.5	80.6	120.5
1852.....	116.7	100.0	100.0	82.7	76.6	80.0	88.9	120.5
1853.....	116.7	100.0	100.0	88.1	84.7	80.0	88.9	120.5
1854.....	116.7	100.0	100.0	88.1	84.7	80.0	88.9	120.5
1855.....	116.7	100.0	100.0	103.8	96.4	80.0	88.9	120.5
1856.....	116.7	100.0	100.0	104.9	99.3	80.0	88.9	120.5
1857.....	100.0	100.0	100.0	104.9	99.3	80.0	88.9	120.5
1858.....	100.0	100.0	100.0	91.9	94.9	80.0	88.9	100.0
1859.....	100.0	100.0	100.0	90.3	91.2	100.0	100.0	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	116.7	100.0	112.5	102.7	105.1	100.0	100.0	100.0
1862.....	150.0	111.1	125.0	90.8	91.2	100.0	100.0	100.0
1863.....	158.3	111.1	125.0	102.7	100.7	100.0	100.0	100.0
1864.....	166.7	111.1	125.0	145.9	153.3	110.0	111.1	135.5
1865.....	166.7	111.1	125.0	134.6	140.9	110.0	111.1	150.6
1866.....	166.7	111.1	125.0	130.3	142.3	110.0	111.1	213.0
1867.....	150.0	88.9	100.0	136.8	149.6	110.0	111.1	213.0
1868.....	133.3	88.9	100.0	136.8	149.6	110.0	111.1	150.6
1869.....	125.0	88.9	100.0	149.7	164.2	120.0	111.1	150.6
1870.....	116.7	88.9	100.0	149.7	164.2	120.0	111.1	150.6
1871.....	116.7	88.9	100.0	150.3	164.2	120.0	111.1	150.6
1872.....	116.7	88.9	100.0	170.3	186.9	125.0	134.4	150.6
1873.....	116.7	88.9	100.0	176.8	194.2	125.0	134.4	132.5
1874.....	108.3	88.9	87.5	110.3	130.7	125.0	134.4	132.5
1875.....	108.3	77.8	87.5	104.9	124.1	125.0	134.4	145.8
1876.....	108.3	77.8	87.5	90.8	107.3	125.0	134.4	145.8
1877.....	108.3	77.8	87.5	84.3	100.0	140.0	137.8	145.8
1878.....	116.7	88.9	100.0	85.4	100.7	140.0	137.8	145.8
1879.....	116.7	88.9	100.0	81.6	93.4	140.0	137.8	186.7
1880.....	116.7	88.9	100.0	96.2	113.9	140.0	137.8	150.6
1881.....	116.7	88.9	100.0	96.2	113.9	152.0	159.6	150.6
1882.....	116.7	88.9	100.0	108.1	124.8	152.0	159.6	143.1
1883.....	116.7	88.9	100.0	121.6	137.2	152.0	159.6	143.1
1884.....	106.7	88.9	100.0	121.6	137.2	152.0	159.6	143.1
1885.....	106.7	88.9	100.0	108.1	124.8	152.0	159.6	150.6
1886.....	106.7	88.9	100.0	110.8	124.8	152.0	159.6	150.6
1887.....	110.0	88.9	100.0	121.6	137.2	161.0	163.9	150.6
1888.....	110.0	88.9	95.0	110.8	124.1	161.0	163.9	150.6
1889.....	110.0	88.9	95.0	121.6	137.2	161.0	163.9	150.6
1890.....	110.0	88.9	87.5	121.6	137.2	161.0	163.9	150.6
1891.....	110.0	88.9	87.5	108.1	124.1	161.0	163.9	150.6

In the table we have added some columns giving the averages in those cases where the same occupation is repeated. The position of wages in 1891 is as follows, 1860 being 100:

Anthracite coal, miners	177.0
Bar iron:	
Puddlers (average)	138.9
Puddlers' helpers (average)	156.2
Rollers	119.8
Green-glass blowers (average)	213.0
Iron ore:	
Miners (average)	126.0
Skilled laborers	221.1
Unskilled laborers	206.7
Blaster and drillers	122.9

Metals and metallic goods:

Moulders	110.0
Cupolamen	88.9
Melters	87.5
Pig iron:	
Keepers	108.1
Fillers	124.1
Pottery:	
Hollow-ware pressers	161.0
Handlers	163.9
Window glass	150.6

In this summary it will be seen that the rule is advanced wages. The exception is found in the stove foundry at Quincy, Ill. There wages for two classes have decreased. It will be noted that in the tables previously given the wages of this class of labor advanced with the other occupations. On the whole, however, there is no question but that the wages in these important industries conform in the main with the results of the general investigation into wages. It may be remarked that the average of the 1891 wages given above is 145.6. If the average be taken of the 1891 figures of the table as it stands the result would be 156.5. In the foregoing statement several high wages have been averaged, and this depresses the average in the first statement. All allowances being made for different systems of obtaining the average, it is clear that the results of Table XIII conform substantially to those of Table XII. It is less comprehensive than the former, and exact agreement could not be expected.

TEACHERS' SALARIES FOR FIFTY-TWO YEARS.

In order to ascertain the changes which have taken place in the remuneration of all kinds of labor, the committee made an investigation into the remuneration of teachers as representatives of the professional class. While it would have been equally desirable to obtain some information as to the salaries of clergymen and fees of physicians, it was out of the question. Even in ascertaining the remuneration of teachers extreme difficulty was experienced. The compensation of teachers is subject to peculiar rules. The classification of teachers since the year 1840 has been subjected to many changes, and many cities have adopted a system of grading by which the salary is determined not so much by the position occupied as by the number of years of service. It was necessary, therefore, to exercise the utmost care to secure grades of teachers representing practically the same degree of talent and having essentially the same functions to-day as they had at the beginning of the period. The figures given for cities in Table XIV represent in each case the teacher of maximum proficiency in the designated grade and the man or woman of long experience as a teacher. These, in their respective positions, may be assumed to represent essentially the same standard. Our figures, therefore, are given mostly from the highest class of teachers, but to maintain a balance we have also given in each city the minimum remuneration paid to teachers. The minimum amount could be ascertained equally well with the maximum amount, whereas in the intermediate region there are infinite shadings and variations in the rate of salaries. In the following table we present an analysis of the salaries paid teachers in city schools:

TABLE 47.—*Relative teachers' salaries for 52 years in cities.*

Year.	St. Louis.					Boston.		
	Principal, high school.	Assistants, high school.	Principal, district school.	Head assistants, district school.	Third assistants, district school.	Head masters, high school.	Masters, high school.	Masters, grammar school.
1840.....								
1841.....								
1842.....								
1843.....			48.0					
1844.....			56.0					
1845.....			56.0					75.0
1846.....			56.0					
1847.....			48.0	82.4	93.3			
1848.....			60.0					
1849.....								75.0
1850.....								
1851.....								
1852.....						85.7	75.0	75.0
1853.....								90.0
1854.....	52.0	75.0	88.0	82.4	80.0			
1855.....						85.7	90.0	90.0
1856.....								
1857.....						100.0	100.0	100.0
1858.....	100.0	100.0	100.0	94.1	93.3	100.0	100.0	100.0
1859.....	100.0	100.0	100.0	94.1	93.3	100.0	100.0	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	48.0	66.7	64.0	82.4	73.3	100.0	100.0	100.0
1862.....	64.0	83.3	80.0	94.1	86.7	100.0	100.0	100.0
1863.....						100.0	100.0	100.0
1864.....	100.0	125.0	120.0	141.2	120.0	107.1	110.0	110.0
1865.....	100.0	125.0	120.0	141.2	120.0	125.0	125.0	125.0
1866.....	110.0	141.7	136.0	152.9	133.3	125.0	125.0	125.0
1867.....						142.9	150.0	150.0
1868.....	110.0	166.7	160.0	176.5	133.3	142.9	150.0	150.0
1869.....	120.0	166.7	160.0	176.5	133.3			
1870.....	120.0	166.7	160.0	211.8	133.3			
1871.....	128.0	166.7	180.0	211.8	133.3			
1872.....	128.0	166.7	176.0	211.8	133.3			
1873.....	120.0	166.7	176.0	211.8	133.3	142.9	160.0	160.0
1874.....	120.0	166.7	176.0	211.8	133.3			
1875.....	120.0	187.5	176.0	211.8	133.3			
1876.....	120.0	187.5	176.0	211.8	106.7	142.9	160.0	160.0
1877.....	111.0	154.2	162.8	195.8	106.7	135.0	150.0	150.0
1878.....	104.0	150.0	160.0	200.0	106.7	128.6	144.0	144.0
1879.....	104.0	150.0	160.0	200.0	106.7			
1880.....	104.0	150.0	160.0	200.0	106.7			
1881.....	104.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1882.....	104.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1883.....	104.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1884.....	110.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1885.....						135.0	144.0	144.0
1886.....	110.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1887.....	110.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1888.....	120.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1889.....	120.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1890.....						135.0	144.0	144.0
1891.....						135.0	144.0	144.0

TABLE 47.—*Relative teachers' salaries for 52 years in cities*—Continued.

Year.	Boston—concluded.		Cincinnati.					
	First assistants, grammar school.	Assistants, lowest primary schools.	Principal, high school.	Principal, district school.	Assistants, high- est, district schools.	Assistants, lowest, district schools.	Principal, inter- mediate school.	Assistants, high- est, intermedi- ate school.
1840.....				45.0	57.1	60.0		
1841.....				45.0	57.1	60.0		
1842.....				45.0	51.4	52.0		
1843.....				45.0	51.4	60.0		
1844.....				45.0	51.4	60.0		
1845.....				45.0	51.4	60.0		
1846.....				45.0	51.4	60.0		
1847.....			57.1	50.0	57.1	64.0		
1848.....			68.6	50.0	57.1	64.0		
1849.....	80.0		68.6	65.0	71.4	80.0		
1850.....			68.6	65.0	71.4	80.0		
1851.....			68.6	65.0	71.4	80.0		
1852.....	80.0	83.3	68.6	65.0	71.4	80.0		
1853.....	90.0	83.3	85.7	85.0	85.7	96.0		
1854.....			85.7	85.0	85.7	96.0		
1855.....	90.0	83.3	85.7	85.0	85.7	80.0	77.3	93.3
1856.....			85.7	85.0	85.7	96.0	77.3	93.3
1857.....	100.0	100.0	100.0	85.0	100.0	100.0	100.0	100.0
1858.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1859.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	85.7	89.0	90.7	92.0	87.3	90.2
1862.....	100.0	100.0	85.7	89.0	90.7	92.0	87.3	90.2
1863.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1864.....	120.0	133.3	114.3	125.0	100.0	100.0	121.2	100.0
1865.....	140.0	150.0	114.3	125.0	100.0	100.0	121.2	100.0
1866.....	140.0	150.0	138.3	158.3	166.7	133.3	159.1	100.0
1867.....	140.0	183.3	138.3	158.3	166.7	133.3	159.1	177.8
1868.....	140.0	183.3	148.6	158.3	166.7	133.3	159.1	177.8
1869.....			148.6	158.3	166.7	133.3	159.1	177.8
1870.....			148.6	158.3	166.7	133.3	159.1	177.8
1871.....			148.6	158.3	166.7	133.3	159.1	177.8
1872.....			148.6	158.3	166.7	133.3	159.1	177.8
1873.....	170.0	200.0	148.6	158.3	166.7	133.3	159.1	177.8
1874.....			148.6	158.3	166.7	133.3	159.1	177.8
1875.....			148.6	158.3	166.7	133.3	159.1	177.8
1876.....	200.0	200.0	148.6	158.3	166.7	133.3	159.1	177.8
1877.....	170.4	180.0	148.6	158.3	166.7	133.3	159.1	177.8
1878.....	216.0	168.0	148.6	158.3	166.7	133.3	159.1	177.8
1879.....			148.6	158.3	166.7	133.3	159.1	177.8
1880.....			148.6	158.3	166.7	133.3	159.1	177.8
1881.....	216.0	168.0	148.6	158.3	166.7	133.3	159.1	177.8
1882.....	216.0	168.0	148.6	158.3	166.7	133.3	159.1	177.8
1883.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1884.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1885.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1886.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1887.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1888.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1889.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1890.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8
1891.....	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.8

TABLE 47.—*Relative teachers' salaries for 52 years in cities—Concluded.*

Year.	Baltimore.									General average of all quotations.
	Principal, high school, boys.	Assistants, high school, boys.	Principal, grammar school, boys.	Principal, grammar school, girls.	Principal, primary school, boys' and girls.	Teachers, highest grade primary school, boys' and girls.	First assistants, grammar school, boys.	Assistants (beginners), primary schools, boys' and girls.	First assistants, grammar schools, girls.	
1840.....	100.0	.....	83.3	70.0	.....	.....	.....	.....	66.7	68.9
1841.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.0
1842.....	100.0	68.2	94.4	90.0	.....	.....	.....	.....	83.3	73.0
1843.....	.....	.....	.....	.....	.....	.....	.....	.....	83.3	57.5
1844.....	100.0	68.2	111.1	90.0	.....	.....	.....	50.0	83.3	71.5
1845.....	100.0	68.2	94.4	90.0	.....	.....	.....	100.0	83.3	74.8
1846.....	100.0	68.2	94.4	90.0	.....	.....	.....	100.0	83.3	74.8
1847.....	.....	.....	.....	.....	.....	.....	.....	100.0	83.3	70.6
1848.....	100.0	77.3	94.4	90.0	.....	.....	.....	150.0	83.3	81.3
1849.....	80.0	77.3	94.4	90.0	.....	.....	.....	150.0	83.3	84.6
1850.....	80.0	77.3	94.4	90.0	83.3	75.0	.....	150.0	83.3	83.8
1851.....	80.0	77.3	94.4	90.0	83.3	.....	.....	100.0	83.3	80.6
1852.....	80.0	77.3	94.4	90.0	83.3	75.0	.....	100.0	83.3	80.4
1853.....	80.0	77.3	94.4	90.0	83.3	75.0	.....	100.0	83.3	86.6
1854.....	100.0	81.8	100.0	100.0	100.0	100.0	.....	100.0	100.0	87.9
1855.....	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	91.4
1856.....	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.7
1857.....	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3
1858.....	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.8
1859.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.8
1862.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.7
1863.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1864.....	120.0	127.3	144.4	140.0	166.7	175.0	171.4	250.0	166.7	132.3
1865.....	120.0	127.3	144.4	140.0	166.7	175.0	171.4	250.0	166.7	134.7
1866.....	146.7	163.6	166.7	180.0	233.3	250.0	200.0	400.0	233.3	166.7
1867.....	146.7	163.6	166.7	180.0	233.3	250.0	200.0	400.0	233.3	183.7
1868.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	177.9
1869.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	184.5
1870.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3
1871.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	187.7
1872.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	187.5
1873.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	183.0
1874.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	187.1
1875.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	188.1
1876.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	184.0
1877.....	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.0
1878.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.2
1879.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	182.8
1880.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	182.8
1881.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1882.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1883.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	177.8
1884.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	177.8
1885.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3
1886.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.1
1887.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.1
1888.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1889.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1890.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3
1891.....	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3

The advance was all the way from 6 per cent to 308 per cent in different instances which will be noticed in the table. However, the last-named figure is probably an error, inasmuch as it seems improbable that the figures throughout relate to the same grade of teachers. The table shows that, as a rule, there has been little change in recent years. With the table is a column giving the general average, which shows an advance of 86 per cent since 1860. The advance occurred mostly in the period between 1865 and 1870, at a time when there was a general increase in wages. Since then there has been no substantial change in the currency remuneration of teachers. Teachers' salaries, being matters of regulation by city boards rather than a free contract, can hardly be supposed to respond as readily to the changed conditions of trade and living as other professional services, and they are, therefore, only useful as throwing some light upon the subject.

In regard to the wages of teachers in rural districts it was almost impossible to get any figures which are worthy of confidence which would in any measure indicate the change which had occurred in the remuneration of teachers. The records are not very numerous. As throwing some light upon the subject, however, we have inserted in Table XIV figures giving the average salaries of male and female teachers in two Massachusetts counties of Barnstable and Franklin. These were selected as being distinctively rural communities, without large centers of population. There has been no marked increase in population in Franklin County since 1840 and in Barnstable County there has been a decrease, so that the conditions may be considered as approximately the same to-day as they were fifty years ago. It is true the figures we have given are simply average rates, and during this time the school system of these two counties, as elsewhere throughout the country, has experienced some change. Graded schools have in part taken the place of ungraded schools, and it is possible that there are to-day a larger number of teachers of better equipment than was the case in 1840. The number of male teachers is relatively much less to-day than it was in 1840, and to-day they occupy relatively higher positions in the school systems of those counties than they did in 1840. It is not probable that the average position and training of the female teacher has greatly changed. With these reserves we give in Table 48 a comparison of the salaries paid in each year with those of the year 1860. We find a very marked increase between 1840 and 1860, amounting on the average to more than 100 per cent. In the subsequent period, 1860 to 1890, the increase on the average was nearly 75 per cent, and was somewhat greater for the female teachers than for the male teachers.

TABLE 48.—*Relative teachers' salaries for 52 years, Barnstable and Franklin counties, Mass.*

Year.	Barnstable County, Mass.		Franklin County, Mass.		General average.
	Male teachers.	Female teachers.	Male teachers.	Female teachers.	
1840	49.8	32.2	57.1	38.0	44.3
1841	50.9	34.9	54.7	38.4	44.7
1842	50.9	32.7	54.3	38.9	44.2
1843	52.0	37.7	49.9	38.7	44.6
1844	51.6	39.3	50.2	37.1	44.6
1845	51.7	41.4	51.9	37.0	45.5
1846	57.1	41.6	61.4	43.7	51.0
1847	53.7	37.7	54.5	39.6	46.4
1848	56.8	42.3	53.6	48.3	50.3
1849	57.1	41.6	61.4	43.7	51.0
1850	77.9	68.5	84.9	76.4	76.9
1851	79.5	69.4	85.2	83.7	79.5
1852	80.3	67.7	88.5	83.3	80.0
1853	78.6	72.0	84.2	84.7	79.9
1854	85.1	76.1	86.2	88.4	84.0
1855	90.6	86.7	99.3	93.6	92.6
1856	95.5	93.1	88.2	97.2	93.5
1857	99.0	90.4	105.9	102.1	99.4
1858	99.4	94.7	103.0	97.0	98.5
1859	100.0	89.8	103.9	96.6	97.6
1860	100.0	100.0	100.0	100.0	100.0
1861	101.0	94.4	101.7	96.2	98.3
1862	99.5	99.1	99.5	99.3	99.4
1863	102.2	93.8	100.3	99.8	99.0
1864	105.1	97.6	105.8	103.1	102.9
1865	122.3	109.0	134.4	120.4	121.5
1866	131.6	117.8	141.3	133.4	131.0
1867	137.1	123.6	146.6	137.3	136.2
1868	141.5	137.0	142.1	144.4	141.3
1869	156.4	139.4	159.7	151.5	151.8
1870	152.6	139.6	150.9	161.3	151.1
1871	153.6	143.6	162.0	164.2	155.9
1872	148.8	150.2	157.6	169.5	156.5
1873	167.3	163.0	165.8	174.5	167.7
1874	174.9	150.6	170.3	186.9	170.7
1875	170.0	168.1	179.6	182.0	174.9
1876	165.7	167.9	152.3	183.2	167.3
1877	161.4	162.2	154.4	170.1	162.0
1878	160.8	162.9	143.1	162.1	157.2
1879	160.3	152.9	128.4	156.1	149.4
1880	155.2	154.5	120.2	148.2	144.5
1881	146.9	157.5	142.8	157.9	151.3
1882	160.7	164.8	127.7	159.4	153.2
1883	151.2	168.6	141.7	164.7	156.6
1884	158.9	176.7	146.4	161.8	161.0
1885	156.4	172.4	148.9	165.8	160.9
1886	161.7	172.5	149.4	172.2	164.0
1887	168.2	174.3	132.9	172.0	161.9
1888	164.9	178.2	134.8	174.4	163.1
1889	174.4	180.5	200.4	176.1	182.9
1890	167.4	182.4	169.6	180.3	174.9

It was observed that, with wages, teachers' salaries advanced in the years 1865-1870 and reached the highest point in the first half of the following decade. It is significant, however, and well worth our attention that the high rates of these years are currency rates, and that as currency enhanced in value until it reached par there was substantial change in the rates. It amounted, therefore, to an increase of salary, and it is as true of teachers' salaries as it is of wages, that they are higher to-day than they ever were. In war time teachers suffered even more than wage-earners from the decreased wages due to depreciated currency and the general social disturbance. A survey of Table 49, which gives relative teachers' salaries in gold, will make this clear.

TABLE 49.—*Relative teachers' salaries in gold for 52 years.*

Year.	In cities.	In Barn- stable and Franklin counties, Mass.	Year.	In cities.	In Barn- stable and Franklin counties, Mass.
1840	68.9	44.3	1866	119.0	93.5
1841	54.0	44.7	1867	136.5	101.2
1842	73.0	44.2	1868	128.4	102.0
1843	57.5	44.6	1869	136.1	111.9
1844	71.5	44.6	1870	153.6	124.6
1845	74.8	45.5	1871	169.6	140.8
1846	74.8	51.0	1872	171.9	143.4
1847	70.6	46.4	1873	162.4	148.8
1848	81.3	50.3	1874	168.0	153.2
1849	84.6	51.0	1875	167.2	155.5
1850	83.8	76.9	1876	163.1	148.3
1851	80.6	79.5	1877	167.6	152.5
1852	80.4	80.0	1878	175.7	155.0
1853	86.6	79.9	1879	182.8	149.4
1854	87.9	84.0	1880	182.8	144.5
1855	91.4	92.6	1881	178.5	151.3
1856	93.7	93.5	1882	178.5	153.2
1857	98.3	99.4	1883	177.8	156.6
1858	98.8	98.5	1884	177.8	161.0
1859	99.5	97.6	1885	186.3	160.9
1860	100.0	100.0	1886	178.1	164.0
1861	90.8	98.3	1887	178.1	161.9
1862	91.4	97.0	1888	178.5	163.1
1863	68.9	68.2	1889	178.5	182.9
1864	85.1	66.2	1890	186.3	174.9
1865	62.3	56.2	1891	186.3	-----

SUPPLEMENTARY PRICES AND WAGES.

In order to bring the work of the committee down to as recent a date as possible a supplementary investigation both of prices and wages was ordered. This brought the work to October 1892, the result of this supplementary investigation being found in full in the following tables:

Table XXII.—Wholesale prices of commodities in October 1891, and October 1892.

Table XXIII.—Rates of wages in July 1891, and October 1892.

PRICES.

We may first consider prices. To ascertain the significance of such changes as may have occurred we have subjected the figures to the same analysis which has been used in the general investigation. Taking the prices of January 1860 as a standard of comparison we have ascertained the relative price of each article in October 1891 and October 1892, as compared with this standard. The results are embodied in the following table:

TABLE 50.—*Relative prices in October 1891 and October 1892.*

Group and article.	October—		Group and article.	October—	
	1891.	1892.		1891.	1892.
<i>Food.</i>			<i>Food—continued.</i>		
Beans	112.0	106.7	Bread—concluded.		
Bread:			Navy shipbread	114.3	85.7
A shipbread	125.0	100.0	Oyster crackers	80.0	80.0
B shipbread	112.5	87.5	Ship biscuits	150.0	150.0
Boston crackers	94.1	94.1	Soda crackers	100.0	80.0
Do	58.8	58.8	Butter	116.7	92.2
Do	-----	-----	Cheese	95.0	90.0
Boston crackers, extra grade	-----	-----	Coffee, Rio, fair	139.1	157.6

TABLE 50.—Relative prices in October 1891 and October 1892—Continued.

Group and article.	October—		Group and article.	October—	
	1891.	1892.		1891.	1892.
<i>Food—concluded.</i>			<i>Cloths and clothing—concluded.</i>		
Eggs	80.8	86.5	Cassimeres all wool—concluded.		
Fish:			3-4, 12-ounce Harris double	a 89.0	89.0
Cod	a 275.0	200.0	and twist		
Mackerel, salt, shore, No. 1 ..	150.0	150.0	3-4, 12-ounce, Harris silk		
Mackerel, salt, shore, No. 2 ..	164.7	176.5	mixed		
Mackerel, salt, shore, No. 3 ..	230.0	240.0	Fancy, 3-4, light weight		
Flour:			Checks, black and white, all wool,		
Wheat	b 78.8	61.8	3-4, 7-ounce, Harris		
Rye	126.3	93.8	Cotton, upland, middling		
Fruit:			Denims Amoskeag	77.6	79.3
Apples, dried	c 135.5	58.1	Drillings, 30-inch, Pepperell	76.8	68.0
Currants, Zante	64.6	64.6	Hides, dry, Buenos Ayres	a 55.2	51.5
Raisins	91.3	73.9	Horse blankets, 6 pounds, all wool	a 81.1	81.1
Lard	64.3	76.2	Leather, harness	80.0	80.0
Lard, pure leaf	a 60.6	74.7	Print cloths:		
Meal, corn, yellow, kiln dried ..	97.6	75.9	28-inch, 64 by 64, Metacomet ..	55.8	65.1
Meat:			28-inch, 7 yards to the pound,		
Bacon, clear	a 76.0	106.8	standard	53.3	62.2
Beef, loins	b 111.1	105.6	Shawls, standard, 72 by 144 inches,		
Beef, salt, mess	65.2	65.2	weighing 42 ounces, made of		
Beef, ribs	b 113.3	106.7	XX Ohio fleece wool	a 95.0	93.1
Ham, sugar-cured	a 122.2	130.6	Sheetings, brown, 4-4, Atlantic		
Lamb	d 102.0	100.0	A	83.1	75.0
Mutton	b 150.0	150.0	Shirtings, bleached, 4-4, New		
Pork, salt, mess	74.2	74.2	York Mills	68.5	66.8
Milk, fresh	b 100.0	100.0	Sole leather, first quality, me-		
Molasses:			dium weight, Buenos Ayres	a 87.5	82.7
New Orleans, prime	60.4	62.3	Tickings, Amoskeag A. C. A.	69.1	69.1
Porto Rico, best	92.1	92.1	Wool:		
Rice, Carolina, prime	138.2	111.8	Ohio, medium fleece, scoured ..		
Salt:			Ohio, fine fleece, scoured		
Ashton's	128.2	115.4			
Ashton's Liverpool, fine	116.9	116.9	<i>Fuel and lighting.</i>		
Coarse, solar	55.4	54.3	Candles, best adamantine	44.4	44.4
Fine, boiled	52.0	52.0	Coal, anthracite:		
Turk's Island	130.0	130.0	Chestnut	130.2	147.6
Spices:			Egg	105.3	115.8
Nutmegs	140.5	119.0	F. lump	96.0	106.7
Pepper, whole, Sumatra	89.6	80.6	Grate	97.3	108.1
Starch, corn	76.5	73.5	Pea	100.0	91.7
Do	70.6	67.6	S. lump	96.0	106.7
Sugar:			Stove	109.0	121.8
Brown	b 55.4	58.0	Coal, bituminous	65.0	65.0
Cut	b 52.4	53.7	Matches, 8-card	77.1	81.3
Fair refining	39.7	41.4			
Havana brown			<i>Metals and implements.</i>		
Refined, crushed and granu-			Anvils, domestic	a 118.5	111.8
lated	43.8	47.2	Bar iron, best refined, rolled	a 72.4	71.6
Tallow, prime, city, in hogsheads.	48.8	43.9	Butts, loose joint, cast, 3 by 3 inch	66.7	66.7
Vegetables, fresh, potatoes, white	e 100.0	142.9	Copper, ingot	47.9	50.0
Do	100.0	203.8	Copper, sheet	54.2	54.2
			Door knobs, mineral	40.0	40.0
<i>Cloths and clothing.</i>			Iron rails, standard		
Blankets, 11-4, 5 pounds to the			Iron rods, for making common		
pair:			wood screws	a 76.0	76.0
Cotton warp, cotton and wool			Iron wire, market, No. 10	57.7	40.2
filling	a 76.7	73.3	Lead:		
Cotton warp, all wool filling ..	a 82.9	78.6	Drop shot	94.8	93.4
Broadcloths:			Pig	78.8	69.3
First quality, black, 54-inch,			Do	78.7	68.0
made from XXX wool	a 100.0	100.0	Pipe	86.7	86.7
Second quality, black, 54-			Locks, common:		
inch, made from XX wool ..	a 116.7	116.7	Mortise	60.1	60.1
Calico, Cocheco prints	63.2	63.2	Rim	54.3	54.3
Carpets:			Meat cutters, Hale's, No. 12	42.3	42.3
Brussels, 5-frame, Bigelow ...	90.4	78.8	Nails, cut	a 59.4	58.5
Ingrain, 2-ply, Lowell	72.0	70.8	Pig iron, No. 1, anthracite, foun-		
Wilton, 5-frame, Bigelow	113.5	108.1	dery	a 70.0	70.2
Cassimeres all wool:			Pocket knives:		
3-4, 7-ounce, Harris double and			Redwood, iron lined handle, 2 $\frac{7}{8}$ -		
twist	a 78.5	78.5	inch, 1 blade	a 53.6	53.6

a For year 1891.
b For May 1891.
c For July 1891.

d This price is for August 1891.
e For November 1891.

TABLE 50.—Relative prices in October 1891 and October 1892—Continued.

Group and article.	October—		Group and article.	October—	
	1891.	1892.		1891.	1892.
<i>Metals and implements—concluded.</i>			<i>Lumber and building materials—concluded.</i>		
Pocket knives, standard:			Chestnut, lumber, in the log, not sawed	100.0	100.0
Black horn, brass G. S. handle, 3½-inch, pen, 2 blades	a 72.0	72.0	Doors, pine, unmoulded, 2 feet 4 inches by 6 feet 8 inches, 1½ inches thick	a 78.1	84.4
Cocoa, brass G. S. handle, 3¼-inch, 2 blades	a 60.0	60.0	Hemlock:		
Cocoa, brass G. S. handle, 3¾-inch, 2 blades	a 68.2	68.2	Boards, first quality, 1-inch, not planed	b 142.9	128.6
Cocoa, iron-lined handle, 2¾-inch, 1 blade	a 67.9	67.9	Lumber, in the log, not sawed	133.3	133.3
Cocoa, iron-lined handle, 3¼-inch, 1 blade	a 66.7	66.7	Lime, Rockland	141.7	141.7
Cocoa, iron-lined handle, 3½-inch, 1 blade	a 66.7	66.7	Maple, boards, first quality, 1-inch, rough	a 122.2	122.2
Cocoa, iron-lined handle, 3½-inch, 2 blades	a 57.3	57.3	Oak, boards, white, plain, first quality, 1-inch, rough	a 318.2	318.2
Cocoa, iron-lined handle, 3¾-inch, 2 blades	a 70.0	70.0	Oxide of zinc, American, dry	91.7	100.0
Cocoa, iron-lined handle, 4-inch, 1 blade	a 75.0	75.0	Pine, boards:		
Ebony, brass G. S. handle, 3¼-inch, 2 blades	a 61.1	61.1	White, clear, 1-inch, not planed	160.0	169.6
Ivory, brass G. S. handle, 3-inch, pen, 2 blades	a 72.7	72.7	White, clear, extra, 1-inch, not planed	b 183.3	208.3
Ivory, brass G. S. handle, 3½-inch, pen, 2 blades	a 61.8	61.8	White, clear, extra, 1-inch, not planed	b 207.1	225.9
Ivory, brass G. S. handle, 3¼-inch, pen, 4 blades	a 73.7	73.7	White, common, 1-inch, not planed	b 130.4	139.1
Ivory, brass G. S. handle, 3½-inch, pen, 3 blades	a 76.5	76.5	White, common, 1-inch, not planed	b 173.0	194.6
Pearl, brass-lined handle, 3¼-inch, pen, 3 blades	a 78.6	78.6	White, culls, 1-inch, not planed	b 177.8	192.6
Pearl, silver-lined handle, 2¾-inch, pen, 3 blades	a 81.3	81.3	Pine, flooring, white, extra, 1-inch, not planed	b 128.6	142.9
Pearl, silver-lined handle, 3¼-inch, pen, 4 blades	a 80.0	80.0	Pine, lumber, in the log, not sawed	150.0	150.0
Redwood, iron-lined handle, 4-inch pruner, 1 blade	a 85.7	85.7	Plate glass, polished, unsilvered:		
Redwood, iron-lined handle, 5-inch pruner, 1 blade	a 73.9	73.9	Area 1 to 3 square feet	c 87.8	59.2
Stag, brass G. S. handle, 4¼-inch, 3 blades	a 56.7	56.7	Area 3 to 5 square feet	c 76.5	51.5
Stag, brass-lined handle, 3¼-inch, pen, 3 blades	a 68.2	68.2	Area 5 to 10 square feet	c 88.5	70.5
Stag, brass-lined handle, 3½-inch, pen, 3 blades	a 96.4	96.4	Area 10 to 40 square feet	c 89.2	83.3
Stag, brass-lined handle, 3¾-inch, 4 blades	a 79.4	79.4	Area 40 to 80 square feet	c 66.7	62.5
Stag, brass-lined handle, 4-inch, 4 blades	a 75.0	75.0	Area 80 to 100 square feet	c 57.2	53.9
Quicksilver	115.4	100.5	Putty	66.7	53.3
Rope:			Shingles, pine:		
Manila	103.0	124.2	16 inches	d 98.9	101.1
Tarred, American	97.3	97.3	16 inches, XXX	b 151.4	162.9
Tarred, Russian	94.7	94.7	16 inches, extra, XXX, cut	a 145.5	145.5
Saws:			16 inches, extra, XXX, sawed	a 150.0	150.0
Circular, 52-inch, Disston's	a 52.8	52.8	Spruce, boards, 1-inch	131.3	131.3
Crosscut, 6-foot, Disston's	a 65.2	65.2	Tar, Wilmington	88.0	84.0
Hand, common, Disston's	a 37.5	37.5	Turpentine	92.5	71.3
Hand, standard, Disston's	a 97.4	90.2	Window glass:		
Scythes	a 60.0	60.0	American, 10x14, firsts, single	83.1	89.1
Shovels, Ames No. 2, cast steel, D handle, square point, back strap	72.7	72.7	American, 10x14, thirds, single		
Spelter, imported	133.3	119.0	French, 10x14, firsts, single	78.0	78.1
Woodscrews, 1-inch, No. 10, flat head, iron	89.6	97.7	French, 10x14, thirds, single	78.2	92.0
Zinc, imported, sheet					
<i>Lumber and building materials.</i>			<i>Drugs and chemicals.</i>		
Brick, common domestic building	125.7	131.4	Alcohol	425.9	414.8
Carbonate of lead, in oil	86.2	83.1	Alum, lump, crystal	66.7	73.3
Cement, Rosendale	85.0	80.0	Bichromate of potash	46.4	50.0
			Blue vitriol	32.6	31.6
			Brimstone, crude	66.7	53.3
			Calomel	114.7	104.4
			Copperas	60.0	60.0
			Flaxseed	57.4	66.3
			Glycerine, refined	37.5	33.8
			Linseed oil	75.4	77.2
			Mercury	109.1	96.4
			Muriatic acid	29.2	33.3
			Opium	32.2	27.8
			Quinine	21.8	21.4
			Soda ash	63.2	67.4
			Sugar of lead:		
			Brown	83.3	80.0
			White	104.3	95.7
			Sulphuric acid	31.8	31.8

a For the year 1891.
b For July 1891.

c For January 1891.
d For April 1891.

TABLE 50.—*Relative prices in October 1891 and October 1892—Concluded.*

Group and article.	October—		Group and article.	October—	
	1891.	1892.		1891.	1892.
<i>House furnishing goods.</i>			<i>House furnishing goods—conc'd.</i>		
Furniture:			Tubs, wooden.....	95.0	72.5
Chairs, bedroom, maple, cane seat.....	70.0	70.0	Do	82.8	75.9
Chairs, kitchen, common spindle.....	93.3	93.3	Do	82.2	68.9
Tables, kitchen, pine, 3½-foot.....	125.0	125.0	<i>Miscellaneous.</i>		
Glassware:			Powder, rifle.....	110.0	100.0
Bowls, 8-inch.....	a 30.0	30.0	Do	91.7	83.3
Goblets, common.....	a 15.6	14.4	Rubber, Para	120.0	121.8
Pitchers, ½-gallon.....	a 20.6	16.9	Soap, castile, mottled, imported..	73.5	73.5
Sets, finished.....	a 36.6	36.6	Starch:		
Tumblers, ½-pint.....	a 41.7	38.3	Ontario	100.0	95.0
Pails, wooden:			Ordinary laundry	63.2	54.1
2-hoop.....	78.6	75.0	Pearl.....	91.7	87.5
Do	81.5	75.9	Pure.....	92.3	88.5
3-hoop.....	78.1	62.5	Refined	92.9	89.3
Tubs, wooden.....	100.0	76.0	Silver gloss	90.3	87.1

a For the year 1891.

The foregoing table is simply a continuation of Table 1 of this report. To better appreciate what changes have taken place we have condensed the foregoing table as follows:

TABLE 51.—*Relative prices in October 1891 and October 1892, by groups.*

Group.	Number of quotations.	October 1891.		October 1892.	
		Sum of relative prices.	Average.	Sum of relative prices.	Average.
Food.....	53	5,421.5	102.3	5,220.1	98.5
Cloths and clothing.....	22	1,765.9	80.3	1,730.9	78.7
Fuel and lighting.....	10	920.3	92.0	989.1	98.9
Metals and implements.....	54	3,955.8	73.3	3,903.5	72.3
Lumber and building materials.....	36	4,364.7	121.2	4,385.4	121.8
Drugs and chemicals.....	18	1,458.2	81.0	1,418.5	78.8
House furnishing goods.....	15	1,031.0	68.7	931.2	62.1
Miscellaneous.....	16	925.6	92.6	880.1	88.0
Total.....	218	19,843.0	91.0	19,458.8	89.3

Each article is accounted in this table of equal importance in the averages by groups and in the total. By this method of comparison we find a decline in price in October 1892, as compared with October 1891, in all the groups except lumber and building materials and fuel and lighting. In the former the advance is less than 1 per cent, while in fuel and lighting the advance is from 92 to 98.9. An examination of the table (50) shows this to be due to the advance in anthracite coal. In the year covered by the table there was an average fall in price of all articles from 91 to 89.3.

To facilitate comparison we add the figures for January 1891 in the following table:

TABLE 52.—*Relative prices in January 1891, October 1891, and October 1892.*

Group.	January 1891.	October 1891.	October 1892.
Food.....	103.9	102.3	98.5
Cloths and clothing.....	81.1	80.3	78.7
Fuel and lighting.....	91.0	92.0	98.9
Metals and implements.....	74.9	73.3	72.3
Lumber and building materials.....	122.3	121.2	121.8
Drugs and chemicals.....	86.3	81.0	78.8
House furnishing goods.....	70.1	68.7	62.1
Miscellaneous.....	95.1	92.6	88.0
Total.....	92.2	91.0	89.3

As compared with the final date of our previous calculations, January 1891, the decline in price is quite marked. In only one group, fuel and lighting, is there any increase whatever. The difference in food is quite noticeable, while the average shows a decline of nearly 3 per cent.

It is needless to call attention again to the inaccuracies which may arise from the method of comparison which is pursued here. They have been dwelt upon at length in this and a former report. An elaborate account has been given of methods pursued to obtain an average of relative prices which should fairly represent the relative price to the consumer. Similar methods are applied to the figures under consideration in the table which follows:

TABLE 53.—*Relative prices of all articles, grouped according to importance, January 1891, October 1891, and October 1892.*

Date.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
January 1891	96.2	94.4
October 1891.....	95.0	92.8
October 1892.....	94.3	91.7

This table confirms what has already been said concerning the decline in price, which is strongly marked by both methods of calculation.

WAGES.

The investigation into wages was also continued. To test the results we have continued our former tables and present in Table 54 what is practically a continuation of Table 37 of this report. For each of the occupations represented in Table 37 we give in the following the relative wages in July 1891 and October 1892, compared with January 1860:

TABLE 54.—*Relative wages in July 1891 and October 1892.*

Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.	Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.
	<i>Agricultural implements.</i>				<i>Books and newspapers.</i>		
1	Foremen, woodworkers.....	182.9	182.9	5	Carpenters.....	190.1	190.1
1	Laborers.....	141.0	125.0	3	Compositors.....	128.5	122.0
1	Machinists.....	120.1	139.0	5	Compositors.....	150.2	150.2
1	Painters.....	120.4	131.2	6	Compositors.....	139.0	136.2
1	Woodworkers.....	128.5	138.6	3	Compositors (piece workers)	138.0	140.0
	<i>Ale, beer, and porter.</i>			3	Compositors' apprentices..	174.8	189.2
2	Brewers.....	375.0	270.0	6	Compositors' apprentices..	109.3	111.9
2	Coopers.....	178.1	182.7	5	Compositors (learners)....	84.2	167.6
2	Foremen, laborers.....	195.1	186.6	5	Folders.....	137.2	158.5
2	Laborers.....	224.7	235.3	5	Foremen, compositors.....	154.3	154.3
2	Teamsters.....	147.9	150.3	6	Foremen, compositors.....	126.6	146.6
				5	Foremen, pressmen.....	150.0	216.8
				3	Laborers.....	146.3	124.4

TABLE 54.—Relative wages in July 1891 and October 1892—Continued.

Es- tab- lish- ment num- ber	Industry and occupation.	July 1891.	October 1892.	Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.
	<i>Books and newspapers— concluded.</i>				<i>Cotton goods.</i>		
5	Machinists.....	146.6	176.0	38	Back boys.....	201.9	203.8
5	Porters.....	157.9	157.9	40	Back hands.....	143.8	175.0
3	Press feeders.....	201.7	201.7	38	Balers.....	105.0	110.0
6	Press feeders.....	243.9	253.0	40	Band boys.....	111.4	126.6
3	Pressmen.....	138.7	137.5	38	Beam carriers.....	122.2	149.7
5	Pressmen.....	160.1	157.7	38	Beltmen.....	140.0	140.0
6	Pressmen.....	107.1	128.5	38	Blacksmiths.....	153.6	153.6
5	Press-room hands.....	166.0	200.0	38	Boilermen.....	88.6	80.0
	<i>Building trades.</i>			38	Card grinders.....	187.8	135.6
22	Bricklayers.....	200.0	200.0	39	Card grinders.....	176.5	159.0
26	Bricklayers.....	200.0	202.5	40	Card grinders.....	183.7	184.3
22	Bricklayers' helpers.....	200.0	200.0	41	Card grinders.....	179.6	179.6
26	Bricklayers' helpers.....	200.9	178.6	38	Card strippers.....	184.5	154.9
7	Carpenters.....	178.6	146.6	39	Card strippers.....	160.0	160.0
8	Carpenters.....	154.1	158.0	40	Card strippers.....	135.1	132.5
13	Carpenters.....	147.7	148.5	38	Carpenters.....	124.7	130.3
17	Carpenters.....	163.1	156.2	39	Carpenters.....	138.7	134.5
19	Carpenters.....	175.0	175.0	40	Carpenters.....	130.2	137.2
27	Carpenters.....	163.4	162.9	41	Carpenters.....	111.0	110.7
28	Carpenters.....	154.3	160.0	40	Cloth-room hands.....	153.0	156.4
13	Carpenters' helpers.....	138.0	139.8	38	Doffers.....	265.1	257.1
17	Carpenters' helpers.....	185.4	189.9	40	Doffers.....	216.4	209.8
9	Hod carriers.....	189.5	194.1	41	Doffers.....	194.6	189.1
16	Laborers.....	148.3	141.1	38	Doubler tenders.....	156.3	176.6
17	Laborers.....	156.8	142.0	39	Drawers-in.....	200.0	256.8
17	Machine hands.....	121.0	133.3	41	Drawers-in.....	145.2	148.4
17	Machine hands' helpers....	61.6	49.2	39	Drawing hands.....	135.7	157.1
9	Masons.....	183.6	189.2	40	Drawing hands.....	208.1	206.1
10	Painters.....	142.9	142.9	41	Drawing-frame tenders....	180.7	180.7
18	Painters.....	175.0	175.0	40	Dressers.....	198.1	143.1
23	Painters.....	182.8	182.8	40	Engineers.....	141.7	160.0
15	Painters, house.....	204.9	242.2	38	Entrymen.....	114.1	114.1
22	Plasterers.....	200.0	200.0	38	Filling carriers.....	122.9	122.9
29	Plasterers.....	189.3	189.3	40	Firemen.....	116.6	141.3
16	Plumbers.....	125.0	150.0	41	Firemen.....	95.1	90.3
20	Plumbers.....	186.7	186.7	39	Foremen, carpenters.....	200.0	170.3
24	Roofers.....	209.0	194.0	39	Foremen, machinists.....	228.6	220.9
21	Roofers, slate and metal ..	280.0	280.0	39	Foremen, yard.....	125.0	183.8
14	Steam and gas fitters.....	117.0	136.0	40	Foremen, yard.....	210.0	210.0
14	Steam and gas fitters' ..			40	Harness hands.....	209.2	169.0
	helpers.....	97.5	125.5	38	Lap carriers.....	145.8	154.9
17	Teamsters.....	180.0	200.0	41	Lapper feeders (boys).....	198.5	173.1
16	Tinsmiths.....	169.2	158.7	38	Machinists.....	108.0	122.4
	<i>Carriages and wagons.</i>			39	Machinists.....	142.4	154.0
33	Blacksmiths.....	200.0	176.3	40	Machinists.....	115.6	107.6
33	Blacksmiths' helpers.....	209.6	189.8	41	Machinists.....	210.2	210.2
33	Painters.....	200.0	184.4	38	Masons.....	131.1	131.1
33	Wheelwrights.....	200.0	208.8	38	Master machinists.....	90.1	144.4
	<i>City public works.</i>			40	Master machinists.....	250.0	250.0
35	Blacksmiths.....	166.7	166.7	38	Oilers.....	272.6	203.1
35	Blacksmiths' helpers.....	160.0	200.0	38	Overseers, carding depart- ment.....	133.3	133.3
35	Bricklayers.....	175.0	175.0	39	Overseers, carding depart- ment.....	250.0	178.8
35	Carpenters.....	174.4	174.4	40	Overseers, carding depart- ment.....	200.0	200.0
36	Carpenters.....	150.0	150.0	41	Overseers, carding depart- ment.....	128.6	128.6
36	Engineers.....	129.9	136.5	38	Overseers, cloth room.....	150.0	150.0
36	Engineers, assistant.....	178.0	164.4	39	Overseers, cloth room.....	177.8	171.8
36	Firemen.....	165.2	186.4	40	Overseers, cloth room.....	281.7	281.7
35	Foremen, laborers.....	200.0	203.8	39	Overseers, dressing de- partment.....	257.1	276.3
34	Foremen, laborers.....	142.9	151.1	38	Overseers, spinning de- partment.....	133.3	133.3
35	Gardeners.....	153.8	153.8	39	Overseers, spinning de- partment.....	275.0	205.5
34	Laborers.....	151.7	153.7	40	Overseers, spinning de- partment.....	160.0	160.0
35	Laborers.....	176.0	176.0	38	Overseers, weaving depart- ment.....	193.7	193.7
36	Laborers.....	148.5	134.6	39	Overseers, weaving depart- ment.....	250.0	290.0
37	Laborers.....	120.0	123.2	40	Overseers, weaving depart- ment.....	222.2	222.2
36	Machinists.....	195.7	196.0	41	Overseers, weaving depart- ment.....	171.4	171.4
35	Masons.....	175.0	175.0				
34	Masons.....	141.7	200.0				
36	Patternmakers.....	200.0	200.0				
35	Quarrymen.....	181.8	181.8				
35	Stonecutters.....	175.0	175.0				
36	Watchmen.....	129.7	123.3				

TABLE 54.—*Relative wages in July 1891 and October 1892—Continued.*

Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.	Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.
	<i>Cotton goods—concluded.</i>				<i>Ginghams—concluded.</i>		
38	Painters	126.1	165.4	43	Overseers, weaving de- partment	133.3	128.3
39	Painters	124.1	139.0	43	Painters	142.9	119.4
38	Pickers	149.3	159.9	43	Pickers	140.0	111.0
39	Pickers	140.8	142.2	43	Quillers	189.5	195.6
40	Picking-room hands	126.7	133.5	43	Reelers	178.8	173.5
41	Piecers, back (boys)	172.4	172.4	43	Second hands	154.8	153.5
41	Piecers, front (boys)	156.4	141.9	43	Speeders	171.7	180.8
38	Roller coverers	136.0	136.0	43	Spinners, frame	160.7	173.2
40	Room hands	157.5	196.3	43	Warpers	187.7	150.0
40	Roving hands	234.2	226.3	43	Weavers	163.0	171.6
38	Scrubbers	154.4	195.5	43	Winders	196.4	192.0
38	Second hands	145.4	142.9	43	Yard hands	135.0	135.0
39	Second hands	171.5	154.0				
40	Second hands	143.1	142.4				
41	Second hands	145.4	156.4		<i>Groceries.</i>		
39	Section hands	216.4	200.0				
41	Section hands	120.8	121.2	44	Salesmen	233.7	224.6
39	Slasher tenders	152.8	143.1	44	Teamsters	155.7	133.3
41	Slubber tenders	119.7	114.5				
39	Speeders	215.4	165.4		<i>Illuminating gas.</i>		
40	Speeders	168.3	126.7				
41	Speeder tenders	112.9	118.6	47	Blacksmiths	139.9	135.6
39	Spinners, frame	252.6	173.7	48	Blacksmiths	150.0	150.0
41	Spinners, frame	274.0	260.3	47	Blacksmiths' helpers	177.8	177.8
41	Spinners, mule	253.8	224.8	48	Blacksmiths' helpers	165.0	162.5
38	Spoolers	146.0	150.0	47	Bricklayers	171.0	166.3
40	Spoolers	201.2	195.2	48	Bricklayers	156.4	140.7
41	Spoolers	253.2	253.2	47	Bricklayers' helpers	149.8	168.5
38	Sweepers	93.7	71.1	47	Carpenters	185.7	175.1
40	Sweepers	175.6	173.1	48	Carpenters	163.9	163.9
40	Teamsters	86.7	88.7	46	Coal handlers	150.0	150.0
38	Third hands	169.1	163.9	47	Engineers	150.1	150.1
39	Warpers	175.6	172.3	46	Firemen	183.5	165.0
40	Warpers	185.6	216.1	47	Firemen	223.9	223.9
41	Warpers	126.2	126.9	48	Firemen	178.4	172.2
38	Waste hands	88.2	88.2	47	Laborers	151.7	155.9
41	Watchmen	210.1	245.0	48	Laborers	129.5	146.0
39	Watchmen	149.4	177.9	46	Laborers, street	156.5	150.0
40	Watchmen	146.2	166.5	47	Painters	200.0	200.0
39	Weavers	226.1	187.0	47	Pavers	200.0	200.0
41	Weavers, 3 and 4 looms	175.0	172.5	45	Retortmen	135.0	137.7
41	Weavers, 5 looms	151.6	145.2	47	Stablemen	180.0	156.4
41	Weavers, 6, 7, and 8 looms	130.7	137.5	48	Watchmen	181.8	141.4
41	Weavers, spare	183.0	200.0				
38	Wheel pitmen	73.0	73.0		<i>Leather.</i>		
38	Yard hands	104.5	97.7				
39	Yard hands	126.9	140.4	50	Blackers	166.5	166.5
41	Yard hands	128.5	130.5	50	Cellar hands	145.5	145.5
38	Yarn carriers	117.6	150.0	50	Finishers	141.0	141.0
	<i>Dry goods.</i>			50	Flatteners	164.4	164.4
42	Porters	125.0	125.0	50	Glossers	200.4	200.4
42	Salesmen	259.1	201.8	50	Setters-out	142.9	142.9
42	Saleswomen	171.9	179.4	50	Splitters	130.7	130.7
	<i>Ginghams.</i>			50	Stuffers	153.5	153.5
43	Back boys	200.0	208.3	50	Table hands	145.5	145.5
43	Boiler tenders	175.1	175.1	50	Whiteners	156.5	156.5
43	Card grinders	120.0	120.0				
43	Card strippers	138.6	138.6		<i>Lumber.</i>		
43	Card tenders	140.0	140.0	53	Salesmen	188.7	186.7
43	Carpenters	137.1	115.7	53	Teamsters	148.0	140.9
43	Doffers	151.1	153.3	53	Yard hands	169.7	153.8
43	Drawers-in	118.8	137.5				
43	Drawing-frame tenders	163.3	160.3		<i>Metals and metallic goods.</i>		
43	Dressers	179.9	125.6	54	Blacksmiths	129.6	133.3
43	Loom fixers	121.8	118.4	56	Blacksmiths	200.0	178.6
43	Machinist	151.6	124.8	57	Blacksmiths	151.8	149.2
43	Overseers, carding depart- ment	133.3	140.0	61	Blacksmiths	175.0	116.0
43	Overseers, dressing de- partment	133.3	140.0	65	Blacksmiths	125.0	137.5
43	Overseers, spinning de- partment	160.0	151.2	67	Blacksmiths	152.3	152.3
				68	Blacksmiths	184.0	182.0
				71	Blacksmiths	149.6	142.9
				72	Blacksmiths	156.8	160.1
				73	Blacksmiths	125.9	120.9
				74	Blacksmiths	90.9	101.1

TABLE 54.—*Relative wages in July 1891 and October 1892—Continued.*

Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.	Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.
	<i>Metals and metallic goods— continued.</i>				<i>Metals and metallic goods— concluded.</i>		
54	Blacksmiths' helpers.....	115.3	122.5	68	Machinists' apprentices...	125.7	156.0
57	Blacksmiths' helpers.....	140.0	139.5	69	Machinists' apprentices...	150.9	145.0
67	Blacksmiths' helpers.....	205.7	205.7	54	Machinists' helpers.....	114.2	140.1
68	Blacksmiths' helpers.....	162.9	171.4	56	Machinists' helpers.....	139.4	144.2
71	Blacksmiths' helpers.....	165.2	163.0	58	Machinists' helpers.....	126.2	112.9
72	Blacksmiths' helpers.....	165.7	171.4	67	Machinists' helpers.....	137.0	139.7
73	Blacksmiths' helpers.....	140.0	145.5	68	Machinists' helpers.....	153.0	157.5
74	Blacksmiths' helpers.....	92.9	93.9	69	Machinists' helpers.....	126.8	120.4
54	Boilermakers.....	137.0	141.2	72	Masons.....	130.0	137.4
55	Boilermakers.....	176.5	184.2	72	Masons' helpers.....	159.6	155.4
57	Boilermakers.....	135.0	120.4	74	Millwrights.....	140.0	147.0
68	Boilermakers.....	180.6	187.6	54	Moulders.....	149.2	148.3
68	Boilermakers' apprentices	206.7	208.0	56	Moulders.....	143.8	153.9
54	Boilermakers' helpers.....	152.2	135.2	57	Moulders.....	131.3	130.2
55	Boilermakers' helpers.....	168.7	189.1	67	Moulders.....	152.4	150.3
68	Boilermakers' helpers.....	167.3	185.1	68	Moulders.....	154.8	161.6
72	Boiler tenders.....	200.0	220.0	71	Moulders.....	165.0	150.7
71	Carpenters.....	137.9	133.2	73	Moulders.....	150.8	141.0
72	Carpenters.....	138.2	143.7	74	Moulders.....	147.1	118.8
72	Coal wheelers.....	167.6	167.6	58	Moulders, iron.....	145.8	160.3
66	Coremakers.....	120.0	120.0	56	Moulders' apprentices.....	160.0	151.8
73	Coremakers.....	127.3	139.3	68	Moulders' apprentices.....	170.0	136.0
74	Coremakers.....	141.7	122.1	54	Moulders' helpers.....	121.4	120.6
66	Cupolamen.....	156.4	156.4	56	Moulders' helpers.....	133.0	139.5
71	Draughtsmen.....	245.5	176.0	68	Moulders' helpers.....	186.1	193.1
74	Draughtsmen.....	168.0	176.6	57	Painters.....	127.8	116.0
54	Engineers.....	133.3	133.3	54	Patternmakers.....	146.6	153.4
56	Engineers.....	257.5	257.5	56	Patternmakers.....	164.5	135.5
62	Engineers.....	106.8	106.8	57	Patternmakers.....	158.6	162.0
66	Engineers.....	225.0	250.0	59	Patternmakers.....	157.1	157.1
74	Engineers.....	135.0	106.3	60	Patternmakers.....	125.0	120.3
68	Foremen, blacksmiths.....	108.3	116.7	67	Patternmakers.....	166.7	166.7
71	Foremen, blacksmiths.....	194.5	194.5	68	Patternmakers.....	175.2	170.2
54	Foremen, boilermakers.....	133.3	133.3	71	Patternmakers.....	165.3	155.1
68	Foremen, boilermakers.....	117.9	136.9	74	Patternmakers.....	179.2	189.6
58	Foremen, furnacemen.....	100.0	108.3	68	Patternmakers' appren- tices.....	97.7	105.3
54	Foremen, machinists.....	84.7	84.7	74	Pattern-makers' helpers...	107.7	101.5
56	Foremen, machinists.....	100.0	100.0	57	Teamsters.....	163.4	149.0
58	Foremen, machinists.....	153.4	135.3	58	Teamsters.....	159.6	186.2
65	Foremen, machinists.....	138.8	138.8	66	Teamsters.....	150.0	150.0
68	Foremen, machinists.....	129.1	180.0	60	Watchmen.....	140.0	133.3
54	Foremen, moulders.....	130.4	130.4	66	Watchmen.....	175.4	175.4
56	Foremen, moulders.....	192.4	173.3	67	Watchmen.....	176.5	176.5
58	Furnacemen.....	119.4	129.8	68	Watchmen.....	160.0	160.0
57	Laborers.....	137.0	143.5	61	Woodworkers.....	147.4	142.6
58	Laborers.....	139.3	168.5				
59	Laborers.....	166.7	166.7		<i>Paper.</i>		
60	Laborers.....	100.0	106.4				
61	Laborers.....	135.6	133.3	75	Engineers.....	171.7	160.9
62	Laborers.....	109.6	109.6	75	Finishers.....	250.4	240.0
66	Laborers.....	179.6	186.2	75	Laborers.....	150.0	150.0
67	Laborers.....	179.2	169.7	75	Machine hands.....	206.0	206.0
71	Laborers.....	171.5	139.0	75	Paper cutters.....	200.0	200.0
73	Laborers.....	130.0	129.5	75	Rag sorters.....	150.0	150.0
74	Laborers.....	120.0	146.5				
54	Machinists.....	139.4	138.0		<i>Railroads.</i>		
56	Machinists.....	134.7	126.5				
57	Machinists.....	155.6	155.9	76	Baggagemen.....	105.5	105.7
58	Machinists.....	139.2	149.4	76	Brakemen, freight.....	158.8	158.8
59	Machinists.....	150.0	143.3	76	Brakemen, passenger.....	160.0	160.0
60	Machinists.....	135.1	145.0	76	Carpenters.....	154.2	154.2
61	Machinists.....	155.0	149.8	76	Conductors, freight.....	159.9	159.9
62	Machinists.....	124.0	122.6	76	Conductors, passenger....	120.2	120.2
65	Machinists.....	145.9	137.3	76	Engineers, locomotive....	163.9	163.9
66	Machinists.....	222.2	222.2	76	Firemen, locomotive.....	170.7	177.7
67	Machinists.....	160.1	159.4	76	Foremen, masons.....	164.0	164.0
68	Machinists.....	154.5	160.7	76	Masons.....	136.0	135.3
69	Machinists.....	167.4	164.1	76	Painters.....	124.3	125.7
70	Machinists.....	140.3	140.8				
72	Machinists.....	168.7	181.5		<i>Spice.</i>		
73	Machinists.....	143.7	132.6	78	Grinders.....	185.5	213.0
74	Machinists.....	175.2	147.9	78	Laborers.....	152.9	148.1
56	Machinists' apprentices...	122.0	156.9	78	Shippers.....	300.0	300.0
57	Machinists' apprentices...	70.0	97.3	78	Teamsters.....	116.7	107.3

TABLE 54.—*Relative wages in July 1891 and October 1892—Concluded.*

Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.	Es- tab- lish- ment num- ber.	Industry and occupation.	July 1891.	October 1892.
	<i>Stone.</i>				<i>Woollen goods—concluded.</i>		
81	Carpenters	145.5	145.5	88	Handers-in	130.4	130.4
81	Carvers	160.0	140.0	86	Loom fixers	171.6	176.0
81	Engineers	133.3	133.3	87	Loom fixers	161.2	160.0
79	Foremen, quarrymen	231.4	222.1	86	Overseers, carding depart- ment	200.0	200.0
80	Foremen, quarrymen	157.6	160.5	87	Overseers, carding depart- ment	212.5	212.5
83	Granite cutters	177.8	177.8	88	Overseers, carding depart- ment	285.7	285.7
81	Laborers	136.4	103.6	86	Overseers, dyehouse	236.1	277.8
84	Laborers	160.0	149.2	87	Overseers, dyehouse	150.0	200.0
81	Marble cutters	144.5	141.5	88	Overseers, dyehouse	299.4	299.4
82	Marble cutters	172.3	171.6	86	Overseers, finishing depart- ment	254.5	290.9
81	Marble polishers	134.3	133.0	88	Overseers, finishing depart- ment	250.0	250.0
82	Marble polishers	209.1	209.1	86	Overseers, fulling and gig- ging department	181.8	163.6
81	Marble rubbers	137.0	137.4	88	Overseers, spinning de- partment	225.6	225.6
82	Marble rubbers	262.0	262.0	86	Overseers, weaving depart- ment	200.0	200.0
79	Quarrymen	170.8	172.5	87	Overseers, weaving depart- ment	171.4	171.4
80	Quarrymen	160.2	156.1	88	Overseers, weaving depart- ment	263.2	263.2
84	Stone cutters	201.1	200.9	88	Pickers	95.0	93.8
81	Teamsters	133.3	133.3	88	Pressmen	125.0	125.0
	<i>White lead.</i>			88	Scourers	141.5	150.6
85	Engineers	133.3	166.7	88	Second hands	149.3	165.9
85	Laborers	124.1	136.2	88	Section hands	200.0	200.0
85	Watchmen	174.7	174.7	86	Shearers	206.1	216.8
	<i>Woollen goods.</i>			88	Shearers	111.5	125.0
88	Alley boys	133.3	127.0	86	Sorters	136.3	183.3
88	Burlers	138.9	138.9	86	Speckers	164.0	180.0
86	Card cleaners	172.5	163.0	88	Spinners, jack	135.8	144.2
86	Card tenders	145.8	147.5	86	Spinners, jack and mule ..	121.9	128.6
87	Card tenders	193.7	196.2	86	Spoolers	120.0	130.8
87	Carders	150.9	161.0	88	Twisters	132.1	132.8
86	Carpenters	183.3	166.7	88	Washers	126.1	127.7
88	Cleaners	121.1	132.5	88	Waste sorters	148.9	148.9
86	Drawers-in	300.8	269.4	86	Watchmen	135.5	137.5
88	Dressers	167.0	175.0	88	Watchmen	152.4	152.4
87	Dyehouse hands	179.2	186.2	86	Weavers	188.3	195.0
88	Dyers	136.4	116.8	88	Weavers	166.7	185.2
88	Filling carriers	148.2	147.3	86	Yarn carriers	268.1	234.1
88	Filling sorters	124.0	124.0				
88	Finishers	126.6	126.6				
88	Fullers	128.2	104.3				
86	Fullers and giggers	139.3	150.6				
88	Giggers	148.1	158.2				
86	Handers-in	100.0	100.0				

The main results of the foregoing table can not be properly seen without condensation. In Table 55, which follows, we present the relative wages, averaged for each industry, and the aggregate:

TABLE 55.—*Relative wages in July 1891 and October 1892, by industries.*

Industry.	Number of quotations.	July 1891.		October 1892.	
		Sum of relative prices.	Average.	Sum of relative prices.	Average.
Agricultural implements.....	5	692.9	138.6	716.7	143.3
Ale, beer, and porter.....	5	1,120.8	224.2	1,024.9	205.0
Books and newspapers.....	21	3,150.5	150.0	3,420.1	162.9
Building trades.....	33	5,580.6	169.1	5,630.0	170.6
Carriages and wagons.....	4	809.6	202.4	759.3	189.8
City public works.....	22	3,591.0	163.2	3,700.7	168.2
Cotton goods.....	114	18,836.8	165.2	18,802.8	164.9
Dry goods.....	3	556.0	185.3	506.2	168.7
Ginghams.....	27	4,177.7	154.7	4,038.7	149.6
Groceries.....	2	389.4	194.7	357.9	179.0
Illuminating gas.....	22	3,679.9	167.3	3,589.0	163.1
Leather.....	10	1,546.9	154.7	1,546.9	154.7
Lumber.....	3	506.4	168.8	481.4	160.5
Metals and metallic goods.....	130	19,343.7	148.8	19,255.9	148.1
Paper.....	6	1,128.1	188.0	1,106.9	184.5
Railroads.....	11	1,617.5	147.0	1,625.4	147.8
Sidewalks.....					
Spice.....	4	755.1	188.8	768.4	192.1
Stone.....	18	3,026.6	168.1	2,949.4	163.9
White lead.....	3	432.1	144.0	477.6	159.2
Woollen goods.....	55	9,355.2	170.1	9,555.3	173.7
Total.....	498	80,296.8	161.2	80,313.5	161.3

The table shows very considerable fluctuations, some industries standing higher and others lower in October 1892, than in July of the previous year. In the aggregate there has been practically no change, the exact figures being 161.239 at the earlier and 161.272 at the later date. It will be remembered that previous tables closed with January 1891. On that date the average relative wages for all occupations compared was 160.7, so that while the figures for July 1891 marked an advance of but one-half of 1 per cent., those for October 1892 showed even less.

FOREIGN PRICES.

In accordance with the directions of the committee, a careful search has been made for data in foreign countries capable of comparison with the figures presented for the United States, and to this end a considerable correspondence has been carried on with prominent European statisticians. It is thought that all series of prices which by their scope on the one hand and by their duration upon the other are worthy of consideration have been collected. They form the subject of the present discussion. It is needless to say that a great mass of occasional or spasmodic price statistics was discovered. Only that could be used in this report which in form and matter approximated our tables. Any figures which did not cover a number of articles and a series of years were useless for our comparisons.

Great care has been taken to bring these figures down to date, and for this purpose it was necessary to employ special agents in Europe. It was found impossible to carry them further back than the dates given, though an effort was made in this direction. This work involved considerable difficulty, but it adds much to the value of the figures presented and could not have been omitted.

Uniformly when prices have been given in foreign countries our tables contain the equivalents in money of the United States for the measures in common use here. In all cases a reduction to measures of weight and capacity familiar in the United States has not been possible, but the exceptions to the rule are few. All new calculations of relative prices are however based upon the original figures. In quoting relative prices of others we have not departed from the figures of the original, but in new calculations we have followed our own rules as to decimals and the like.

In converting foreign money into that of the United States use has been made of the equivalents established by the United States Treasury Department.

After giving an account of the statistics of the various European countries, an attempt will be made to coördinate them with the results obtained for the United States.

ENGLAND, THE ECONOMIST PRICES.

The best known price series and calculations of relative prices are those of the Economist. This journal publishes each week a list of "trade prices current," reporting several hundred articles as their price stands on Friday of the week in question. The figures are obtained from a responsible firm or from several firms dealing in different lines of goods quoted and doing business in London and Manchester. Upon this basis the celebrated Economist index number has been built up. The prices quoted may be looked upon as reliable in view of the leading position held by the Economist and the persons from whom its information is drawn. There are evidences that this branch of the Economist's work has not always been prosecuted with equal vigor, but such periods are infrequent and short.

The first use of these figures was made by Tooke and Newmarch, who in their History of Prices, vol. 6, pp. 162 *et seq.*, published the prices of the articles in our list for the first Friday of January, April, July, and October of each year from 1851 to 1856 as well as for February 1857, the date of going to press. Almost the entire edition of this volume was destroyed in an accident. The prices are reproduced in the table which follows. For these years there were no calculations of index numbers made except for January 1851 and July 1853. In the table which we give they have been supplied.

Mr. Newmarch continued his work in communications to the Royal Statistical Society, but has nowhere given the prices for July 1858 and July 1859. These dates are omitted in our tables.

In his report in 1860 (Journal of the Statistical Society, vol. 23, p. 102), Newmarch adopts the average prices for the six years 1845-1850 as a basis upon which to calculate relative prices or index numbers. He said that these years formed a sufficiently long period, prior to the disturbances effected by the gold discoveries, to constitute a proper basis of comparison. He bases his average upon the prices at the beginning of each quarter, and each base price is therefore the average of 24 quotations.

The Economist published these prices with the index numbers based upon them for the first time in a supplement in March 1864, entitled "Commercial History and Review of 1863." From that date to the present time this series of supplements has been continued, the 30th issue appearing in February 1893, and giving a review of 1892.

Mr. Newmarch alone was responsible for the work of selecting prices

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Colonial and tropical produce (food).											
	1. Coffee: Jamaica, ordinary to fine ordinary.				2. Sugar: British plantation, brown.				3. Sugar: Bengal, good yellow and white.			
	Per 112 pounds.		Per pound.		Per 112 pounds.		Per pound.		Per 112 pounds.		Per pound.	
	<i>s. d.</i>	<i>s. d.</i>			<i>s. d.</i>	<i>s. d.</i>			<i>s. d.</i>	<i>s. d.</i>		
1860—Jan	58 0	@ 71 0	\$0.126	@ \$0.154	22 0	@ 26 0	\$0.048	@ \$0.056	31 0	@ 33 6	\$0.067	@ \$0.073
July	63 0	72 0	.137	.156	21 0	25 0	.046	.054	29 6	32 0	.064	.070
1861—Jan	63 0	70 0	.137	.152	23 0	27 6	.050	.060	29 0	32 0	.063	.070
July	64 0	74 0	.139	.161	19 0	23 0	.041	.050	26 0	30 6	.056	.066
1862—Jan	70 0	89 0	.152	.174	18 0	23 0	.039	.050	28 0	31 6	.061	.068
July	74 0	85 0	.161	.185	17 0	22 0	.037	.048	26 0	29 6	.056	.064
1863—Jan	72 0	85 0	.156	.185	17 6	22 0	.038	.048	25 0	30 0	.054	.065
July	74 0	88 0	.161	.191	16 0	20 6	.035	.045	24 0	27 0	.052	.059
1864—Jan	70 0	79 0	.152	.172	25 0	29 0	.054	.063	32 0	35 0	.070	.076
July	70 0	81 0	.152	.176	28 0	30 0	.061	.065	33 0	38 0	.072	.083
1865—Jan	74 0	84 0	.161	.182	18 6	21 6	.040	.047	24 0	30 0	.052	.065
July	76 0	88 0	.165	.191	19 0	22 0	.041	.048	25 0	29 0	.054	.063
1866—Jan	70 0	85 0	.152	.185	22 6	24 6	.049	.053	27 0	30 0	.059	.065
July	62 0	76 0	.135	.165	16 0	20 0	.035	.043	23 0	26 0	.050	.056
1867—Jan	65 0	81 0	.141	.176	19 6	22 0	.042	.048	24 6	28 0	.053	.061
July	63 0	81 0	.137	.176	22 0	28 0	.048	.061	25 6	31 0	.055	.067
1868—Jan	58 0	80 0	.126	.174	23 6	26 0	.051	.056	25 6	31 0	.055	.067
July	54 0	76 0	.117	.165	23 6	26 0	.051	.056	25 0	28 0	.054	.061
1869—Jan	52 0	72 0	.113	.156	23 0	27 0	.050	.059	24 0	29 0	.052	.063
July	55 0	76 0	.119	.165	26 0	30 0	.056	.065	25 0	30 0	.054	.065
1870—Jan	55 0	76 0	.119	.165	27 0	32 0	.059	.070	27 0	32 0	.059	.070
July	52 0	75 0	.113	.163	24 6	30 0	.053	.065	27 0	32 0	.059	.070
1871—Jan	50 0	73 0	.109	.159	26 0	32 0	.056	.070	28 0	32 0	.061	.070
July	55 0	75 0	.119	.163	28 0	32 0	.061	.070	25 0	27 0	.054	.059
1872—Jan	67 0	75 0	.146	.163	29 0	32 0	.063	.070	27 0	31 0	.059	.067
July	74 0	84 0	.161	.182	29 0	33 0	.063	.072	28 0	30 0	.061	.065
1873—Jan	80 0	88 0	.174	.191	26 0	30 0	.056	.065	23 0	27 0	.050	.059
July	85 0	94 0	.185	.204	25 0	29 0	.054	.063	23 0	27 0	.050	.059
1874—Jan	108 0	120 0	.235	.261	23 0	27 0	.050	.059	21 0	26 0	.046	.056
July	92 0	100 0	.200	.217	22 6	27 6	.049	.060	20 0	24 0	.043	.052
1875—Jan	83 0	87 0	.180	.189	24 0	27 0	.052	.059	21 6	24 6	.047	.053
July	84 0	92 0	.182	.200	22 0	25 6	.048	.055	20 0	23 0	.043	.050
1876—Jan	88 0	92 0	.191	.200	21 6	24 0	.047	.052	19 0	22 0	.041	.048
July	78 0	83 0	.169	.180	20 6	25 6	.044	.055	18 0	21 6	.039	.047
1877—Jan	80 0	94 0	.174	.204	31 0	36 0	.067	.078	27 6	32 0	.060	.070
July	82 0	94 0	.178	.204	30 0	34 6	.065	.075	26 6	30 0	.058	.065
1878—Jan	84 0	95 0	.182	.206					18 0	24 0	.039	.052
July	72 0	87 0	.156	.189	19 6	22 0	.042	.048	20 0	24 0	.043	.052
1879—Jan	59 0	82 0	.128	.178	17 0	20 6	.037	.045	19 0	23 0	.041	.050
July	55 0	75 0	.119	.163	14 0	18 0	.030	.039	18 0	22 0	.039	.048
1880—Jan	68 0	80 0	.148	.174	20 6	24 6	.045	.053	21 6	26 0	.047	.056
July	58 0	71 0	.126	.154	19 6	23 6	.042	.051	20 0	24 0	.043	.052
1881—Jan	55 0	65 0	.119	.141	18 6	21 6	.040	.047	19 0	23 0	.041	.050
July	48 0	63 0	.104	.137	20 0	24 0	.043	.052	21 0	26 0	.046	.056
1882—Jan	43 0	55 0	.093	.119	19 6	22 6	.042	.049	21 6	25 0	.047	.054
July	37 0	50 0	.080	.109	18 6	22 6	.040	.049	21 0	24 0	.046	.052
1883—Jan	34 0	45 0	.074	.098	16 6	20 0	.036	.043	19 0	23 0	.041	.050
July	36 0	50 0	.078	.109	17 6	22 0	.038	.048	20 0	23 0	.043	.050
1884—Jan	44 0	60 0	.096	.130	16 6	19 0	.036	.041	18 0	22 0	.039	.048
July	40 0	52 0	.087	.113	11 0	14 0	.024	.030				
1885—Jan	40 0	52 0	.087	.113	9 6	12 0	.021	.026				
July	37 0	46 0	.080	.100	14 0	15 6	.030	.034				
1886—Jan	38 0	46 0	.083	.100	13 6	15 6	.029	.034				
July	35 0	45 0	.076	.098	11 6	13 0	.025	.028				
1887—Jan	60 0	70 0	.130	.152	10 0	22 0	.022	.026				
July	84 0	90 0	.182	.196	10 0	11 0	.022	.024				
1888—Jan	78 0	85 0	.169	.185	13 6	15 0	.029	.033				
July	62 0	72 0	.135	.156	11 6	13 6	.025	.029				
1889—Jan	79 0	90 0	.172	.196	14 0	15 0	.030	.033				
July	74 0	82 0	.161	.178	18 0	23 0	.039	.050				
1890—Jan	87 0	95 0	.189	.206	11 6	13 0	.025	.028	11 6		.025	
July	90 0	96 0	.196	.209	12 0	13 6	.026	.029	11 4½		.025	
1891—Jan	79 0	90 0	.172	.196	12 0	13 6	.026	.029	12 4½		.027	
July	81 0	88 0	.176	.191	13 0	14 6	.028	.032	13 4½		.029	
1892—Jan	86 6	95 0	.188	.206	12 6	16 6	.027	.036	14 2½		.031	
July	78 0	90 0	.169	.196	10 6	14 6	.023	.032	13 1½		.029	
1893—Jan	80 0	95 0	.174	.206	11 6	14 6	.025	.032	14 3	14 4½	.031	.031

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Colonial and tropical produce (food).											
	4. Rum: Jamaica, 15 to 25 O. P.				5. Tea: Congou, middling common to fair good.		6. Tobacco: Virginia leaf.					
	Per gallon.		Per gallon.		Per pound.		Per pound.		Per pound.		Per pound.	
	d.	d.			d.	d.			d.	d.		
1845-1850.....	34 @ 38		\$0.574 @ \$0.642		9½		\$0.188		4½		\$0.091	
1851-Jan.....	30 32		.507 .541		12		.242		4½ @ 10		.091 @ \$0.203	
July.....	30 32		.507 .541		10½		.208		4½ 10		.091 .203	
1852-Jan.....	26 28		.439 .473		7 @ 9		.142 @ \$0.183		2½ 7½		.051 .152	
July.....	24 26		.405 .439		6½ 8½		.132 .172		2½ 6		.051 .122	
1853-Jan.....	32 34		.541 .574		10½		.213		2½ 7		.051 .142	
July.....	32 34		.541 .574		12		.243		2½ 7½		.051 .152	
1854-Jan.....	42 46		.710 .777		14 14½		.284 .294		2½ 8		.051 .162	
July.....	36 40		.608 .676		11 12		.223 .243		2½ 8		.051 .162	
1855-Jan.....	50 56		.845 .946		9½ 11		.193 .223		4 8½		.081 .172	
July.....	42 45		.710 .760		8½ 8¾		.172 .177		4 8½		.081 .172	
1856-Jan.....	48 52		.811 .878		9¾ 10		.198 .213		4 8½		.081 .172	
July.....	36 39		.608 .659		9½ 10		.193 .203		4 8½		.081 .172	
1857-Jan.....	44 46		.743 .777		13		.264		8 11		.162 .223	
July.....	52 56		.878 .946		15		.304		8 11		.162 .223	
1858-Jan.....	44 48		.743 .811		13		.264		7½ 10		.152 .203	
1859-Jan.....	36 40		.608 .676		11		.223		5 10		.101 .203	
1860-Jan.....	38 42		.642 .710		15		.304		5 8½		.101 .172	
July.....	38 42		.642 .710		17 17½		.345 .355		4 8		.081 .162	
1861-Jan.....	36 40		.608 .676		13½ 14½		.274 .294		4 8		.081 .162	
July.....	32 34		.541 .574		11 11½		.223 .233		4 9		.081 .183	
1862-Jan.....	30 32		.507 .541		11½ 12		.233 .243		6 11		.122 .223	
July.....	26 28		.439 .473		11 12		.223 .243		6 12		.122 .243	
1863-Jan.....	24 26		.405 .439		11½ 12		.233 .243		14 15		.284 .304	
July.....	24 26		.405 .439		11 12		.223 .243		14 15		.284 .304	
1864-Jan.....	26 28		.439 .473		11 12		.223 .243		14 15		.284 .304	
July.....	28 30		.473 .507		9½ 11		.193 .223		14 15		.284 .304	
1865-Jan.....	32 34		.541 .574		9½ 10½		.193 .213					
July.....	32 34		.541 .574		9 11		.183 .223		5 12		.101 .243	
1866-Jan.....	32 34		.541 .574		12 14		.243 .284		5 12		.101 .243	
July.....	30 32		.507 .541		12 14		.243 .284		5 12		.101 .243	
1867-Jan.....	28 30		.473 .507		9½ 10½		.193 .213		7 11		.142 .223	
July.....	30 32		.507 .541		5½ 30		.112 .608		7 11		.142 .223	
1868-Jan.....	30 32		.507 .541		5 28		.101 .568		7 11		.142 .223	
July.....	28 30		.473 .507		10 32		.203 .649		7 11		.142 .223	
1869-Jan.....	26 28		.439 .473		7 32		.142 .649		5 10		.101 .203	
July.....	26 28		.439 .473		7 24		.142 .487		5 10		.101 .203	
1870-Jan.....	30 32		.507 .541		6½ 32		.132 .649		5 10		.101 .203	
July.....	32 34		.541 .574		5 28		.101 .568		6 9		.122 .183	
1871-Jan.....	34 36		.574 .608		5 32		.101 .649		6 8		.122 .162	
July.....	34 36		.574 .608		6 28		.122 .568		6½ 8		.132 .162	
1872-Jan.....	40 42		.676 .710		6 30		.122 .608		6½ 10½		.132 .213	
July.....	40 42		.676 .710		6 30		.122 .608		6½ 11		.132 .223	
1873-Jan.....	40 42		.676 .710		6 30		.122 .608		6½ 11		.132 .223	
July.....	41 43		.693 .726		8 9		.162 .183		6 11		.122 .223	
1874-Jan.....	49 50		.828 .845		10 12		.203 .243		5½ 11		.111 .223	
July.....	46 48		.777 .811		9½ 14		.193 .284		4 12		.081 .243	
1875-Jan.....	44 46		.743 .777		9 13		.183 .264		6 17		.122 .345	
July.....	41 46		.693 .777		10 12		.203 .243		6 17		.122 .345	
1876-Jan.....	41 46		.693 .777		9½ 12		.193 .243		6 17		.122 .345	
July.....	38 40		.642 .676		8 11		.162 .223		5 18		.101 .365	
1877-Jan.....	38 40		.642 .676		8 14		.162 .284		5 14		.101 .284	
July.....					7 9		.142 .183		5 12		.101 .243	
1878-Jan.....					9 12		.183 .243		5 12		.101 .243	
July.....	28 30		.473 .507		8 15		.162 .304		5 12		.101 .243	
1879-Jan.....	30 32		.507 .541		7½ 13		.152 .264		4 10		.081 .203	
July.....	32 36		.541 .608		7½ 17		.152 .345		4 10		.081 .203	
1880-Jan.....	40 42		.676 .710		11 15		.223 .304		4½ 11½		.091 .233	
July.....	30 33		.507 .558		7¾ 13		.157 .264		4½ 11½		.091 .233	
1881-Jan.....	31 33		.524 .558		7½ 11		.152 .223		4½ 10		.091 .203	
July.....	40 44		.676 .743		7 10		.142 .203		4 10		.081 .203	
1882-Jan.....	45 48		.760 .811		6 10½		.122 .213		6 15		.122 .304	
July.....	34 38		.574 .642		5 12		.101 .243		6 17		.122 .345	
1883-Jan.....	33 38		.558 .642		5 9		.101 .183		5 17		.101 .345	
July.....	30 36		.507 .608		5 8		.101 .162		4 15		.081 .304	
1884-Jan.....	30 36		.507 .608		7 10		.142 .203		4 15		.081 .304	
July.....	27 33		.456 .558		5 9		.101 .183		4 15		.081 .304	
1885-Jan.....	28 34		.473 .574		5½ 9		.112 .183		5½ 15		.112 .304	
July.....	34 38		.574 .642		6½ 8		.132 .162		5½ 15		.112 .304	
1886-Jan.....	33 35		.558 .591		7¼ 10		.147 .203		5 13½		.101 .274	
July.....	30 33		.507 .558		7½ 10		.152 .203		5½ 14		.112 .284	
1887-Jan.....	34 36		.574 .608		5½ 8		.112 .162		5 13		.101 .264	
July.....	30 33		.507 .558		6½ 9		.127 .183		4½ 14		.091 .284	

TABLE 56.--*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Colonial and tropical produce (food).					
	4. Rum: Jamaica, 15 to 25 O. P.		5. Tea: Congou, middling common to fair good.		6. Tobacco: Virginia leaf.	
	Per gallon.	Per gallon.	Per pound.	Per pound.	Per pound.	Per pound.
	d.	d.	d.	d.	d.	d.
1888—Jan.....	27 @ 30	\$0.456 @ \$0.507	4½ @ 7½	\$0.091 @ \$0.152	6 @ 16	\$0.122 @ \$0.324
July.....	25 29	.422 .490	7½ 11	.147 .223	5 16	.101 .324
1889—Jan.....	25 29	.422 .490	4 9	.081 .183	4½ 16	.091 .324
July.....	25 28	.422 .473	4 7	.081 .142	4½ 16	.091 .324
1890—Jan.....	31 33	.524 .558	4 7½	.081 .152	4 16	.081 .324
July.....	32 34	.541 .574	4½ 8	.086 .162	4 18	.081 .365
1891—Jan.....	33 35	.558 .591	5 8	.101 .162	4 18	.081 .365
July.....	43 45	.726 .760	5½ 7	.112 .142	4 18	.081 .365
1892—Jan.....	42 44	.710 .743	4¾ 6½	.096 .132	4 18	.081 .365
July.....	28 31	.473 .524	4½ 6½	.091 .132	4 18	.081 .365
1893—Jan.....	28 30	.473 .507	5½ 7	.112 .142	4 17	.081 .345

Date.	Colonial and tropical produce (food).		Wheat (England and Wales) and potatoes (Borough).			
	7. Butter: Waterford.		8. Wheat: Gazette price.		9. Potatoes: good English.	
	Per 112 pounds.	Per pound.	Per 8 bushels.	Per bushel.	Per 2,240 pounds.	Per bushel.
	s.	s.	s.	d.	s.	d.
1845-50.....	82	\$0.178	53	0		\$1.563
1851—Jan.....	80	.174	38	1		1.123
July.....	72 @ 74	.156 @ \$0.161	42	11		1.265
1852—Jan.....	72 74	.156 .161	38	4		1.130
July.....	74 80	.161 .174	40	10		1.204
1853—Jan.....	80 86	.174 .187	46	0		1.356
July.....	84	.182	44	11		1.324
1854—Jan.....	104	.226	80	2		2.364
July.....			73	1		2.155
1855—Jan.....	104	.226	72	6		2.138
July.....	100	.217	76	6		2.256
1856—Jan.....	104 108	.226 .235	76	6		2.256
July.....	104	.226	76	1		2.243
1857—Feb.....	112	.243	58	1		1.713
July.....	100	.217	63	1		1.860
1858—Jan.....	110	.239	48	7		1.432
1859—Jan.....	105	.228	40	6		1.194
1860—Jan.....	105	.228	44	2		1.302
July.....			58	5		1.723
1861—Jan.....	112 116	.243 .252	53	7		1.580
July.....	107	.232	51	0		1.504
1862—Jan.....	112	.243	62	1		1.831
July.....	100	.217	56	7		1.668
1863—Jan.....	104 106	.226 .230	45	10		1.351
July.....			46	11		1.383
1864—Jan.....	105	.228	39	10		1.175
July.....	105	.228	40	9		1.201
1865—Jan.....	119	.259	37	10		1.115
July.....	123	.267	41	3		1.216
1866—Jan.....	123	.267	46	3		1.364
July.....	123	.267	54	6		1.606
1867—Jan.....	115	.250	60	2	110 0	\$0.717
July.....	115	.250	64	10		1.912
1868—Jan.....	115	.250	67	4		1.985
July.....	115	.250	67	7		1.993
1869—Jan.....	136	.295	50	11	110 0	.717
July.....	120	.261	47	9		1.408
1870—Jan.....	120	.261	43	8		1.288
July.....	120	.261	51	6		1.531
1871—Jan.....	140	.304	52	7	80 0	.521
July.....	145	.315	59	1		1.742
1872—Jan.....	145	.315	55	4		1.632
July.....	112	.243	58	4		1.720
1873—Jan.....	117	.254	56	4	180 0	1.173
July.....	106	.230	59	1		1.742
1874—Jan.....	106	.230	61	8		1.818
July.....	106	.230	60	8		1.789
1875—Jan.....	106	.230	44	2	110 0	.717
July.....			43	6		1.283

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Colonial and tropical produce (food).		Wheat (England and Wales) and potatoes (Borough).			
	7 Butter: Waterford.		8. Wheat: Gazette price.		9. Potatoes: good English.	
	Per 112 pounds.	Per pound.	Per 8 bushels.	Per bushel.	Per 2,240 pounds.	Per bushel.
	s.		s. d.		s. d.	
1876—Jan.....			45 3	\$1. 334		
July.....			48 10	1. 428		
1877—Jan.....			51 2	1. 509		
July.....			61 5	1. 810	120 0	\$0. 781
1878—Jan.....			51 8	1. 523	160 0	1. 043
July.....	83	\$0. 180	46 0	1. 356	120 0	. 781
1879—Jan.....	103	. 224	39 7	1. 167	120 0	. 781
July.....	85	. 185	42 4	1. 248	105 0	. 684
1880—Jan.....	117	. 254	46 11	1. 383	145 0	. 945
July.....	90	. 196	44 7	1. 315	120 0	. 781
1881—Jan.....	119	. 259	43 4	1. 278	85 0	. 554
July.....	99	. 215	45 4	1. 337	75 0	. 489
1882—Jan.....	127	. 276	44 3	1. 305	85 0	. 554
July.....	89	. 193	46 11	1. 383	90 0	. 587
1883—Jan.....	118	. 256	40 11	1. 206	120 0	. 781
July.....	93	. 202	42 3	1. 246	160 0	1. 043
1884—Jan.....	112	. 243	39 0	1. 150	80 0	. 521
July.....	78	. 169	37 4	1. 101	New	
1885—Jan.....	100	. 217	31 11	. 941	70 0	. 456
July.....	70	. 152	32 8	. 963	New	
1886—Jan.....	85	. 185	30 3	. 892	90 0	. 587
July.....	60	. 130	31 0	. 914	New	
1887—Jan.....	105	. 228	35 0	1. 032	90 0	. 587
July.....	75	. 163	35 1	1. 034	90 0	. 587
1888—Jan.....	100	. 217	30 9	. 907	90 0	. 587
July.....	75	. 163	31 3	. 921	160 0	1. 043
1889—Jan.....	100	. 217	30 4	. 894	90 0	. 587
July.....			28 7	. 843	80 0	. 521
1890—Jan.....	84	. 182	29 10	. 880	60 0	. 391
July.....	65	. 141	32 8	. 963	50 0	. 326
1891—Jan.....	100	. 217	32 7	. 961	78 0	. 508
July.....	75 $\frac{3}{4}$	. 165	39 6	1. 165	120 0	. 781
1892—Jan.....	99	. 215	36 10	1. 086	68 1 $\frac{1}{2}$	. 444
July.....	83 $\frac{3}{4}$	. 182	29 10	. 880	76 4	. 498
1893—Jan.....	96 $\frac{1}{2}$	. 210	25 8	. 757	65 0	. 424

Date.	Butchers' meat (Smithfield market).					
	10. Beef: inferior, middling.		11. Beef: prime, large.		12. Mutton: middling.	
	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.
	d. d.		d. d.		d. d.	
1845-1850.....	34 @ 36	\$0. 086 @ \$0. 091	38 @ 40	\$0. 096 @ \$0. 101	42 @ 46	\$0. 107 @ \$0. 117
1851—Jan.....	28 30	. 071 . 076	32 36	. 081 . 091	34 42	. 086 . 107
July.....	30 32	. 076 . 081	34 36	. 086 . 091	34 38	. 086 . 096
1852—Jan.....	32 34	. 081 . 086	36 38	. 091 . 096	38 44	. 096 . 112
July.....	32 46	. 081 . 117	36 38	. 091 . 096	34 40	. 086 . 101
1853—Jan.....	32 34	. 081 . 086	36 38	. 091 . 096	44 50	. 112 . 127
July.....	40 42	. 101 . 107	42 44	. 107 . 112	46 50	. 117 . 127
1854—Jan.....	42 46	. 107 . 117	48 50	. 122 . 127	48 54	. 122 . 137
July.....	42 44	. 107 . 112	46 48	. 117 . 122	44 50	. 112 . 127
1855—Jan.....	42 44	. 107 . 112	46 48	. 117 . 122	44 48	. 112 . 122
July.....	42 44	. 107 . 112	46 48	. 117 . 122	44 50	. 112 . 127
1856—Jan.....	42 44	. 107 . 112	46 48	. 117 . 122	44 48	. 112 . 122
July.....	42 44	. 107 . 112	46 50	. 117 . 127	46 54	. 117 . 137
1857—Feb.....	40 46	. 101 . 117	48 50	. 122 . 127	48 52	. 122 . 132
July.....	36 40	. 091 . 101	42 46	. 106 . 117	44 46	. 112 . 117
1858—Jan.....	42 44	. 107 . 112	46 50	. 117 . 127	42 48	. 107 . 122
1859—Jan.....	42 44	. 107 . 112	46 48	. 117 . 122	44 50	. 112 . 127
1860—Jan.....	36 40	. 091 . 101	42 48	. 107 . 122	44 50	. 112 . 127
July.....	48 52	. 122 . 132	54 56	. 137 . 142	52 58	. 132 . 147
1861—Jan.....	40 48	. 101 . 122	50 52	. 127 . 132	48 54	. 122 . 137
July.....	42 44	. 107 . 112	46 48	. 117 . 122	52 51	. 132 . 142
1862—Jan.....	44 48	. 112 . 122	50 52	. 127 . 132	50 52	. 127 . 132
July.....	36 40	. 091 . 101	42 46	. 107 . 117	48 50	. 117 . 127
1863—Jan.....	36 40	. 091 . 101	42 44	. 106 . 112	44 50	. 112 . 127
July.....	40 44	. 101 . 112	46 48	. 117 . 122	46 52	. 117 . 132
1864—Jan.....	40 44	. 101 . 112	46 48	. 117 . 122	48 52	. 122 . 132
July.....	42 44	. 107 . 112	46 48	. 117 . 122	52 56	. 132 . 142
1865—Jan.....	42 48	. 107 . 122	50 52	. 127 . 132	50 54	. 127 . 137
July.....	44 46	. 112 . 117	48 50	. 122 . 127	56 60	. 142 . 152

TABLE 56.--*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Butchers' meat (Smithfield market).											
	10. Beef: inferior, middling.				11. Beef: prime, large.				12. Mutton: middling.			
	Per 8 pounds.		Per pound.		Per 8 pounds.		Per pound.		Per 8 pounds.		Per pound.	
	d.	d.			d.	d.			d.	d.		
1866—Jan.....	36	@ 48	\$0.091	@ \$0.122	50	@ 52	\$0.127	@ \$0.132	52	@ 62	\$0.132	@ \$0.157
July.....	48	52	.122	.132	54	56	.137	.142	64	68	.162	.172
1867—Jan.....	44	48	.112	.122	50	52	.127	.132	48	52	.122	.132
July.....	46	48	.117	.122	52	54	.132	.137	54	56	.137	.142
1868—Jan.....	42	44	.107	.112	46	50	.117	.127	42	48	.107	.122
July.....	44	46	.112	.117	48	50	.122	.127	46	50	.117	.127
1869—Jan.....	42	46	.107	.117	48	52	.122	.132	44	50	.112	.127
July.....	46	50	.117	.127	52	56	.132	.142	46	60	.117	.152
1870—Jan.....	44	46	.112	.117	48	56	.122	.142	48	52	.122	.132
July.....	48	52	.122	.132	54	56	.137	.142	52	56	.132	.142
1871—Jan.....	52	56	.132	.142	56	60	.142	.152	48	56	.122	.142
July.....	52	56	.132	.142	58	62	.147	.157	56	64	.142	.162
1872—Jan.....	48	54	.122	.137	54	58	.137	.147	54	60	.137	.152
July.....	50	52	.127	.132	58	60	.147	.152	56	60	.142	.152
1873—Jan.....	52	54	.132	.137	56	60	.142	.152	60	64	.152	.162
July.....	66	68	.167	.172	68	60	.172	.152	60	74	.152	.188
1874—Jan.....	52	56	.132	.142	58	60	.147	.152	60	64	.152	.162
July.....	50	54	.127	.137	62	64	.157	.162	48	52	.122	.132
1875—Jan.....	48	58	.122	.147	62	66	.157	.167	50	54	.127	.137
July.....	54	60	.137	.152	66	68	.167	.172	60	56	.152	.142
1876—Jan.....	54	60	.137	.152	60	64	.152	.162	60	66	.152	.167
July.....	40	48	.101	.122	60	68	.152	.172	54	58	.137	.147
1877—Jan.....	44	52	.112	.132	52	60	.132	.152	48	60	.122	.152
July.....	48	56	.122	.142	60	66	.152	.167	52	60	.132	.152
1878—Jan.....	42	54	.107	.137	56	60	.142	.152	48	56	.122	.142
July.....	40	56	.101	.142	56	64	.142	.162	52	60	.132	.152
1879—Jan.....	42	48	.107	.122	52	56	.132	.142	48	56	.122	.142
July.....	44	56	.112	.142	56	62	.142	.157	52	64	.132	.162
1880—Jan.....	36	48	.091	.122	52	56	.132	.142	44	50	.112	.127
July.....	48	56	.122	.142	58	62	.147	.157	52	64	.132	.162
1881—Jan.....	52	56	.132	.142	56	58	.142	.147	60	68	.152	.172
July.....	44	52	.112	.132	52	56	.132	.142	52	64	.132	.162
1882—Jan.....	44	48	.112	.122	54	58	.137	.147	42	46	.107	.117
July.....	38	44	.096	.112	48	60	.122	.152	56	64	.142	.162
1883—Jan.....	40	48	.101	.122	56	62	.142	.157	63	70	.160	.177
July.....	44	48	.112	.122	60	65	.152	.165	62	68	.157	.172
1884—Jan.....	38	44	.096	.112	56	62	.142	.157	52	60	.132	.152
July.....	46	50	.117	.127	56	60	.142	.152	48	60	.122	.152
1885—Jan.....	44	52	.112	.132	52	56	.132	.142	44	48	.112	.122
July.....	44	48	.112	.122	48	54	.122	.137	48	56	.122	.142
1886—Jan.....	28	40	.071	.101	44	48	.112	.122	40	44	.101	.112
July.....	28	42	.071	.107	48	52	.122	.132	48	54	.122	.137
1887—Jan.....	28	40	.071	.101	44	48	.112	.122	44	52	.112	.132
July.....	24	40	.061	.101	40	44	.101	.112	40	48	.101	.122
1888—Jan.....	27	48	.068	.122	48	54	.122	.137	36	44	.091	.112
July.....	28	32	.071	.081	46	50	.117	.127	48	50	.122	.127
1889—Jan.....	28	32	.071	.081	48	52	.122	.132	40	52	.101	.132
July.....	26	30	.066	.076	50	54	.127	.137	46	54	.117	.137
1890—Jan.....	30	34	.076	.086	50	52	.127	.132	46	54	.117	.137
July.....	33		.084		54		.137		58		.147	
1891—Jan.....	28		.071		56		.142		60		.152	
July.....	32		.071		62		.157		64		.162	
1892—Jan.....	32		.081		58		.147		62		.157	
July.....	36		.091		55		.139		52		.132	
1893—Jan.....	28		.071		56		.142		54		.137	

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Butchers' meat (Smithfield market).				Raw materials of manufacture.			
	13. Mutton: prime.		14. Pork: large.		15. Silk: raw Cossimbuzar.			
	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
	d. d.		d. d.		s. d. s. d.			
1845-1850.....	48 @ 50	\$0.122 @ \$0.125	39 @ 47	\$0.099 @ \$0.119	9 0 @ 14 0	\$2.190 @ \$3.407		
1851-Jan.....	44 46	.112 .117	30 42	.076 .106	9 0 17 0	2.190 4.137		
July.....	42 44	.106 .112	28 40	.071 .101	9 0 18 0	2.190 4.380		
1852-Jan.....	46 48	.117 .122	32 44	.081 .112	9 6 14 6	2.312 3.528		
July.....	42 44	.106 .112	30 38	.076 .096	10 6 15 0	2.555 3.650		
1853-Jan.....	52 54	.132 .137	32 50	.081 .125	10 6 15 0	2.555 3.650		
July.....	52 56	.132 .142	40 44	.101 .112	12 0 15 0	2.920 3.650		
1854-Jan.....	56 58	.142 .147	42 44	.106 .112	12 6 16 6	3.042 4.015		
July.....	50 56	.125 .142	40 48	.101 .122	9 6 16 6	2.312 4.015		
1855-Jan.....	50 52	.125 .132	36 44	.091 .112	9 6 15 6	2.312 3.772		
July.....	52 56	.132 .142	40 44	.101 .112	9 6 15 0	2.312 3.650		
1856-Jan.....	50 54	.125 .137	46 52	.117 .132	11 0 16 0	2.677 3.893		
July.....	56 60	.142 .152	42 50	.106 .125	11 6 14 0	2.798 3.407		
1857-Feb.....	54 58	.137 .147	44 52	.112 .132	16 0 25 0	3.893 6.083		
July.....	48 52	.122 .132	42 48	.106 .122	17 0 30 0	4.137 7.300		
1858-Jan.....	50 58	.125 .147	42 52	.106 .132	14 0 22 0	3.407 5.353		
1859-Jan.....	52 56	.132 .142	36 44	.091 .112	12 0 20 0	2.920 4.867		
1860-Jan.....	52 54	.132 .137	42 50	.106 .125	12 0 23 0	2.920 5.597		
July.....	60 64	.152 .162	48 54	.122 .137	14 0 13 0	3.407 3.163		
1861-Jan.....	56 60	.142 .152	48 54	.122 .137	14 0 13 0	3.407 3.163		
July.....	56 60	.142 .152	46 50	.117 .125	14 0 17 0	3.407 4.137		
1862-Jan.....	54 56	.137 .142	44 48	.112 .122	13 0 19 0	3.163 4.623		
July.....	52 54	.132 .137	46 50	.117 .125	14 0 20 6	3.407 4.988		
1863-Jan.....	54 54	.132 .137	38 46	.096 .117	14 6 19 0	3.528 4.623		
July.....	52 56	.137 .142	50 54	.125 .137	14 0 21 0	3.407 5.110		
1864-Jan.....	54 56	.137 .142	48 52	.122 .132	14 6 17 6	3.528 4.258		
July.....	52 56	.132 .142	50 54	.125 .137	16 0 21 0	3.893 5.110		
1865-Jan.....	54 58	.137 .147	52 56	.132 .142	17 0 19 0	4.137 4.623		
July.....	66 68	.167 .172	56 60	.142 .152	18 0 23 0	4.380 5.597		
1866-Jan.....	64 66	.162 .167	58 62	.147 .157	19 0 27 0	4.623 6.570		
July.....	70 72	.177 .183	56 60	.142 .152	17 0 28 0	4.137 6.813		
1867-Jan.....	54 58	.137 .147	40 48	.101 .122	19 0 23 0	4.623 5.597		
July.....	58 60	.147 .152	46 52	.117 .132	17 0 23 0	4.137 5.597		
1868-Jan.....	50 52	.125 .132	46 50	.117 .125	16 0 21 0	3.893 5.110		
July.....	52 54	.132 .137	44 48	.112 .122	16 0 26 0	3.893 6.327		
1869-Jan.....	52 56	.132 .142	48 56	.122 .142	16 6 25 6	4.015 6.205		
July.....	58 62	.147 .157	52 64	.132 .162	18 0 23 0	4.380 5.597		
1870-Jan.....	56 60	.142 .152	66 72	.167 .183	17 0 23 0	4.137 5.597		
July.....	56 60	.142 .152	60 68	.152 .172	19 0 27 0	4.623 6.570		
1871-Jan.....	58 60	.147 .152	58 60	.147 .152	17 0 25 0	4.137 6.083		
July.....	62 66	.157 .167	52 58	.132 .147	15 0 25 0	3.650 6.083		
1872-Jan.....	60 68	.152 .172	52 60	.132 .152	15 0 25 0	3.650 6.083		
July.....	70 76	.177 .193	50 60	.125 .152	14 0 27 0	3.407 6.570		
1873-Jan.....	66 68	.167 .172	54 58	.137 .147	13 6 25 6	3.285 6.205		
July.....	76 78	.193 .198	56 62	.142 .157	13 0 25 0	3.163 6.083		
1874-Jan.....	64 68	.162 .172	60 64	.152 .162	11 6 22 6	2.798 5.475		
July.....	54 60	.137 .152	50 56	.125 .142	10 6 18 0	2.555 4.380		
1875-Jan.....	58 62	.147 .157	60 66	.152 .167	10 0 16 6	2.433 4.015		
July.....	72 78	.183 .198	60 64	.152 .162	9 0 13 0	2.190 3.163		
1876-Jan.....	72 74	.183 .188	56 60	.142 .152	8 0 12 0	1.947 2.920		
July.....	72 76	.183 .193	48 60	.122 .152	10 0 14 0	2.433 3.407		
1877-Jan.....	70 76	.177 .193	56 68	.142 .172	16 0 27 0	3.893 6.570		
July.....	64 80	.162 .203	52 60	.132 .152	14 0 20 0	3.407 4.867		
1878-Jan.....	64 72	.162 .183	48 54	.122 .137	14 0 19 0	3.407 4.623		
July.....	64 72	.162 .183	52 60	.132 .152	14 0 17 0	3.407 4.137		
1879-Jan.....	58 64	.147 .162	42 48	.106 .122	11 6 14 6	2.798 3.528		
July.....	68 76	.172 .193	50 56	.125 .142	12 0 18 6	2.920 4.502		
1880-Jan.....	52 60	.132 .152	48 52	.122 .132	13 6 17 6	3.285 4.258		
July.....	68 80	.172 .203	58 64	.147 .162	14 0 17 0	3.407 4.137		
1881-Jan.....	66 72	.167 .183	60 66	.152 .167	14 0 16 0	3.407 3.893		
July.....	66 75	.167 .190	44 52	.112 .132	14 0 17 0	3.407 4.137		
1882-Jan.....	50 60	.125 .152	46 54	.117 .137	15 0 17 3	3.650 3.893		
July.....	64 76	.162 .193	46 52	.117 .132	15 0 16 6	3.650 4.015		
1883-Jan.....	75 80	.190 .203	48 52	.122 .132	13 6 15 6	3.285 3.772		
July.....	70 74	.177 .188	50 52	.125 .132	12 0 14 0	2.920 3.407		
1884-Jan.....	62 70	.157 .177	44 48	.112 .122	12 6 14 6	3.042 3.528		
July.....	66 76	.167 .193	44 46	.112 .117	12 0 14 9	2.920 3.589		
1885-Jan.....	50 64	.125 .162	36 40	.091 .101	8 0 12 6	1.947 3.042		
July.....	60 72	.152 .183	36 40	.091 .101	8 0 12 0	1.947 2.920		
1886-Jan.....	48 56	.122 .142	28 36	.071 .091	9 0 12 6	2.190 3.042		
July.....	60 72	.152 .183	32 36	.081 .091	9 0 14 9	2.190 3.589		
1887-Jan.....	54 60	.137 .152	36 44	.091 .112	14 0 16 0	3.407 3.893		
July.....	52 64	.132 .162	28 36	.071 .091	14 0 15 6	3.407 3.772		

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Butchers' meat (Smithfield market).				Raw materials of manufacture.			
	13. Mutton: prime.		14. Pork: large.		15. Silk: raw Cossimbuzar.			
	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per pound.	Per pound.		
	d. d.		d. d.		s. d. s. d.			
1888—Jan.....	48 @ 52	\$0.122 @ \$0.132	32 @ 38	\$0.081 @ \$0.096	13 0 @ 14 0	\$3.163 @ \$3.074		
July.....	60 64	.152 .162	28 30	.071 .076	12 0 13 0	2.920 3.163		
1889—Jan.....	60 64	.152 .162	36 40	.091 .101	12 6 12 9	3.042 3.102		
July.....	60 68	.152 .172	34 40	.086 .101	12 6 13 0	3.042 3.163		
1890—Jan.....	68 76	.172 .193	36 44	.091 .112	12 6 13 9	3.042 3.346		
July.....	68	.172	40	.101	13 6 14 6	3.285 3.528		
1891—Jan.....	72	.183	37	.094	14 9 15 3	3.599 3.711		
July.....	70	.177	44	.112	14 3	3.467		
1892—Jan.....	70	.177	44	.112	13 0	3.163		
July.....	66	.167	52	.132	13 3	3.224		
1893—Jan.....	64	.162	60	.152	13 9	3.346		

Date.	Raw materials of manufacture.					
	16. Flax: St. Petersburg, 12-head.		17. Linen yarn: 60's, ordinary Belfast.		18. Hemp: St. Petersburg, clean, raw.	
	Per 2,240 pounds.	Per pound.	Per bundle.	Per bundle.	Per 2,240 pounds.	Per pound.
	£ £		s. d.		£ £	
1845-1850.....	41 @ 47	\$0.089 @ \$0.102	.....	.....	32	\$0.070
1851—Jan.....	38 46	.083 .100	.....	.....	30	.065
July.....	42 48	.091 .104	.....	.....	30	.065
1852—Jan.....	42 48	.091 .104	.....	.....	31	.067
July.....	42 53	.091 .115	.....	.....	30	.065
<i>Friesland.</i>						
1853—Jan.....	42 53	.091 .115	.....	.....	39	.085
July.....	42 55	.091 .119	.....	.....	35½	.077
1854—Jan.....	35 52	.076 .113	.....	.....	36 @ 39	\$0.078 @ .085
July.....	35 52	.076 .113	.....	.....	63	.137
1855—Jan.....	50 65	.109 .141	.....	.....	58 62	.126 .135
July.....	50 65	.109 .141	.....	.....	47	.102
1856—Jan.....	50 65	.109 .141	.....	.....	44	.096
July.....	50 65	.109 .141	.....	.....	31	.067
1857—Feb.....	52	.113	.....	.....	37	.080
July.....	50 65	.109 .141	.....	.....	35	.076
1858—Jan.....	50 65	.109 .141	.....	.....	29	.063
1859—Jan.....	50 65	.109 .141	.....	.....	29	.063
1860—Jan.....	65	.141	.....	.....	28	.061
July.....	65	.141	.....	.....	29	.063
1861—Jan.....	65	.141	.....	.....	34	.074
July.....	65	.141	.....	.....	30	.065
1862—Jan.....	65	.141	.....	.....	35	.076
July.....	65	.141	.....	.....	33	.072
1863—Jan.....	65	.141	.....	.....	38½	.084
July.....	63 66	.137 .143	.....	.....	38 41	.083 .089
1864—Jan.....	63 65	.137 .141	.....	.....	38 41	.083 .089
July.....	67 69	.146 .150	.....	.....	33 35	.072 .076
1865—Jan.....	68 70	.148 .152	.....	.....	30 32	.065 .070
July.....	68 72	.148 .156	.....	.....	27 29	.059 .063
1866—Jan.....	a 70	.152	.....	.....	36	.078
July.....	53½	.116	.....	.....	33½	.073
1867—Jan.....	54	.117	6 0	1.460	34	.074
July.....	53½	.116	.....	.....	35	.076
1868—Jan.....	53½	.116	.....	.....	38½	.084
July.....	53½	.116	.....	.....	37	.080
1869—Jan.....	53½	.116	5 3	1.277	41	.089
July.....	53½	.116	.....	.....	35	.076
1870—Jan.....	53½	.116	.....	.....	35	.076
July.....	53	.115	.....	.....	32	.070
1871—Jan.....	53½	.116	4 0	.973	35	.076
July.....	53½	.116	.....	.....	33	.072
1872—Jan.....	53½	.116	.....	.....	34	.074
July.....	53½	.116	.....	.....	38	.083
1873—Jan.....	53½	.116	5 3	1.277	36½	.079
July.....	53½	.116	.....	.....	35½	.077
1874—Jan.....	52½	.116	.....	.....	35½	.078
July.....	39½	.086	.....	.....	35	.076

a St. Petersburg.

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.					
	16. Flax: St. Petersburg, 12-head.		17. Linen yarn: 60's, ordinary Belfast.		18. Hemp: St. Petersburg, clean, raw.	
	Per 2,240 pounds.	Per pound.	Per bundle.	Per bundle.	Per 2,240 pounds.	Per pound.
	£		s. d.		£	
1875—Jan.....	38½	\$0.084	4 5	\$1.075	33¾	\$0.073
July.....	39¾	.086			33¾	.073
1876—Jan.....	45½	.099	4 3	1.034	34½	.075
July.....	49½	.107			37½	.081
1877—Jan.....	38½	.084	4 9	1.156	37	.080
July.....	38¾	.084			36½	.079
1878—Jan.....	38½	.084	4 6	1.095	31½	.068
July.....					30	.065
1879—Jan.....	48½	.105	4 3	1.034	25	.054
July.....	46½	.101			24½	.053
1880—Jan.....	51½	.112	4 9	1.156	25½	.055
July.....	52½	.115	4 4	1.054	22½	.049
1881—Jan.....	29	.063	4 0	.973	23¾	.052
July.....	30	.065	4 0	.973	24½	.053
1882—Jan.....	30	.065	3 10½	.943	26½	.057
July.....	28	.061	3 9	.913	22¾	.049
1883—Jan.....	27½	.060	3 7½	.882	23½	.051
July.....	29	.063	3 7½	.882	24½	.053
1884—Jan.....	27	.059	3 7½	.882	29½	.064
July.....	26¾	.058	3 4	.811	28½	.062
1885—Jan.....	30	.065	4 1½	1.004	29½	.064
July.....	32½	.071	4 3	1.034	28½	.062
1886—Jan.....	29½	.064	3 10½	.943	28½	.061
July.....	31½	.068	3 7½	.882	29½	.064
1887—Jan.....	32	.070	3 6	.852	28½	.061
July.....	28½	.062	3 3	.791		
1888—Jan.....	27	.059	3 3	.791		
July.....	27	.059	3 1½	.760	20	.043
1889—Jan.....	27½	.060	3 4½	.821		
July.....	28½	.062	3 6	.852	25½	.055
1890—Jan.....	23	.050	3 4½	.821	26	.056
July.....	23	.050	3 4½	.821		
1891—Jan.....	23	.050	3 9	.913		
July.....	24	.052	3 9	.913		
1892—Jan.....	24	.052	3 10½	.943	18	.039
July.....	24	.052	3 8½	.897	26	.056
1893—Jan.....	23	.050	3 8½	.897	23	.050

Date.	Raw materials of manufacture.					
	19. Wool, sheeps': English, Southdown.		20. Wool, sheeps': Port Philip, lambs and fleece.		21. Wool, sheeps': South Australian, lambs.	
	Per 240 pounds.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
	£		d. d.		d. d.	
1845-1850.....	13	\$0.264	12 @ 22	\$0.243 @ \$0.446		
1851—Jan.....	14	.284	18	.365	16 @ 19	\$0.324 @ \$0.385
July.....	14½	.294			13 19	.264 .385
1852—Jan.....	13½	.279			11 18	.223 .365
July.....	15	.304			15 24	.304 .487
1853—Jan.....	17½	.350			14 20	.284 .406
July.....	19½	.395	17	.345		
1854—Jan.....	15½ @ 16	\$0.314 @			12 19	.243 .385
July.....	12 12½	.243 .253			12 19	.243 .385
1855—Jan.....	12 13½	.243 .274			13 25	.264 .507
July.....	14 15	.284 .304			13 25	.264 .507
1856—Jan.....	14½ 15	.294 .304			15 30	.304 .608
July.....	17½ 18	.355 .365			15½ 26	.314 .527
1857—Feb.....	20	.406			12 24	.243 .487
July.....	19	.385	18 26	.365 .527		
1858—Jan.....	13	.264	16 21	.324 .426		
1859—Jan.....	19	.385	18 25	.365 .507		
1860—Jan.....	19	.385	22 25	.446 .507		
July.....	19½ 20	.395 .406			12½ 27	.253 .548
1861—Jan.....	19 19½	.385 .395	17½ 38	.355 .771	19½ 25	.395 .507
July.....	16 17	.324 .345	17½ 38	.355 .771	19½ 25	.395 .507
1862—Jan.....	16 16½	.324 .335	16 30	.324 .608	15 22	.304 .446
July.....	16½ 17½	.335 .355	20 29	.406 .588		

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.										
	19. Wool, sheeps': English, Southdown.				20. Wool, sheeps': Port Philip, lambs and fleece.				21. Wool, sheeps': South Australian, lambs.		
	Per 240 pounds.		Per pound.		Per pound.		Per pound.		Per pound.	Per pound.	
	£	£			d.	d.			d.	d.	
1863—Jan.....	20 @	20½	\$0.406 @	\$0.416	18 @	26	\$0.365 @	\$0.527	152 @	0½	\$0.304 @ \$0.416
July.....	21	21½	.426	.436	15	27	.304	.548	15	22	.304 .446
1864—Jan.....		22½		.456	15	28	.304	.568	14	22	.284 .446
July.....	23½	24½	.477	.497	15	28	.304	.568	15	22	.304 .446
1865—Jan.....	24	25	.487	.507	16	27	.324	.548	15	22	.304 .446
July.....	20	21	.406	.426	17	28	.345	.568	14	20	.284 .406
1866—Jan.....	21	22	.426	.446	15	24	.304	.487	15	20	.304 .406
July.....		17		.345	14	27	.284	.548	15	22	.304 .446
1867—Jan.....		19		.385	16	28	.324	.568	15	22	.304 .446
July.....		16½		.335	16	28	.324	.568	15	22	.304 .446
1868—Jan.....		14½		.294	14	26	.284	.527	12	20	.243 .406
July.....		16		.324	14	26	.284	.527	13	20	.264 .406
1869—Jan.....		15½		.314	16	23	.324	.466	10	16	.203 .324
July.....		14		.284	11	23	.223	.466	9	16	.183 .324
1870—Jan.....		13½		.274	12	25	.243	.507	9	16	.183 .324
July.....		12½		.248	13	25	.264	.507	9	16	.183 .324
1871—Jan.....		13		.264	11	22	.223	.446	8	15	.162 .304
July.....		16		.324	14	25	.284	.507	9	12	.183 .243
1872—Jan.....		21½		.436	15	27	.304	.548	12	19	.243 .385
July.....		22		.446	18	30	.365	.608	15	23	.304 .466
1873—Jan.....		23		.466	18	29	.365	.588	15	23	.304 .466
July.....		20		.406	17	28	.345	.568	14	22	.284 .446
1874—Jan.....		20¾		.421	16	28	.324	.568	15	22	.304 .446
July.....		15¾		.319	17	29	.345	.588	15	22	.304 .446
1875—Jan.....		18¼		.370	17	32	.345	.649	16	26	.324 .527
July.....		17		.345	16	30	.324	.608	14	22	.284 .446
1876—Jan.....		17½		.355	15	29	.304	.588	14	22	.284 .446
July.....		14½		.294	13	25	.264	.507	12	18	.243 .365
1877—Jan.....		16½		.335	17	31	.345	.629	16	24	.324 .487
July.....		14½		.294	14	28	.284	.568	14	28	.284 .568
1878—Jan.....		15½		.314	14	28	.284	.568	13	20	.264 .406
July.....		14½		.294	14	28	.284	.568	13	20	.264 .406
1879—Jan.....		13		.264	14	24	.284	.487	13	18	.264 .365
July.....		11½		.233	14	24	.284	.487	13	18	.264 .365
1880—Jan.....		14½		.294	18	23	.365	.466	15	22	.304 .446
July.....		15½		.314	18	23	.365	.466	15	22	.304 .446
1881—Jan.....		15½		.314	17	20	.345	.406	18	21	.365 .426
July.....		12½		.253	17	19	.345	.385	17	19	.345 .385
1882—Jan.....		14		.284	18	19	.365	.385	17½	19	.355 .385
July.....		12		.243	18	20	.365	.406	18	20	.365 .406
1883—Jan.....		12		.243	18	20	.365	.406	18	20	.365 .406
July.....		11½		.233	18	19	.365	.385	18	20	.365 .406
1884—Jan.....		12½		.253	17	18	.345	.365	17	18	.345 .365
July.....		11		.223	16	17	.324	.345	16	18	.324 .365
1885—Jan.....		11½		.228	16	17	.324	.345	16	18	.324 .365
July.....		10½		.213	16	17	.324	.345	16	18	.324 .365
1886—Jan.....		10½		.213	16	17	.324	.345	16	18	.324 .365
July.....		10½		.213	17	18	.345	.365	16	18	.324 .365
1887—Jan.....		12¼		.248	22	23	.446	.466	19	21	.385 .426
July.....		10½		.213	22	24	.446	.487			
1888—Jan.....		11¼		.228	21	23	.426	.466			
July.....		10¼		.208	20	22	.406	.446			
1889—Jan.....		11		.223		20		.406			
July.....		11		.223	a 21½		a .436				
1890—Jan.....		12		.243	24		.487				
July.....		11¾		.238	20½		.416		b 18½		b .375
1891—Jan.....		11½		.233	20		.406		18½		.375
July.....		12		.243	20½		.416		19½		.395
1892—Jan.....		12		.243	17¾		.360		17		.345
July.....		12		.243	18½		.375		16½		.335
1893—Jan.....		11¼		.228	17½		.355		17½		.355

a Good Viei. scoured.

b Cape scoured.

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.					
	22. Dyes: logwood, Jamaica.		23. Dyes: indigo, Bengal.		24. Oils: seal, pale.	
	Per 2,240 pounds.	Per pound.	Per pound.	Per pound.	Per 252 gallons.	Per gallon.
	s. s. d.		s. d. s. d.		£	
1845-1850.....	87 @ 93 0	\$0.010 @ \$0.010	2 0 @ 5 6	\$0.487 @ \$1.338	31½	\$0.507
1851-Jan.....	70 80 0	.008 .009	3 0 6 10	.730 1.663	37	.595
July.....	65 70 0	.007 .008	2 9 6 6	.669 1.582	31	.499
1852-Jan.....	65 70 0	.007 .008	2 6 6 3	.608 1.521	33	.531
July.....	65 70 0	.007 .008	3 0 6 2	.730 1.501	35	.563
1853-Jan.....	80 85 0	.009 .009	4 6 7 5	1.095 1.865	35½	.571
July.....	105 119 0	.011 .013	4 9 7 8	1.156 1.866	33½	.539
1854-Jan.....	110 0	.012	5 0 8 0	1.217 1.947	43	.692
July.....	142 150 0	.015 .016	4 9 7 3	1.156 1.764	42	.676
1855-Jan.....	130 0	.014	3 6 7 6	.852 1.825	47½	.764
July.....	90 95 0	.010 .010	1 3 7 0	.304 1.703	53	.853
1856-Jan.....	110 0	.012	1 0 7 6	.243 1.825	57	.917
July.....	135 0	.015	1 0 7 7	.243 1.845	48½	.780
1857-Feb.....	110 0	.012	1 0 7 9	.243 1.886	50	.804
July.....	105 0	.011			46	.740
1858-Jan.....	105 0	.011			39	.627
1859-Jan.....	105 0	.011			37	.595
1860-Jan.....	80 85 0	.009 .009			33	.531
July.....	90 95 0	.010 .010			36 @ 36½	\$0.579 @ .587
1861-Jan.....	95 97 0	.010 .011			40	.644
July.....	95 97 0	.010 .011			40	.644
1862-Jan.....	120 130 0	.013 .014			40½	.652 .660
July.....	100 110 0	.011 .012				
1863-Jan.....	107 112 0	.012 .012			48½	.780
July.....	90 100 0	.010 .011			47	.756 .772
1864-Jan.....	90 0	.010			48	.772
July.....	90 0	.010			48	.772
1865-Jan.....	72 75 0	.008 .008			48	.772 .788
July.....	70 75 0	.008 .008			42	.676
1866-Jan.....	90 0	.010			50½	.812
July.....	95 0	.010			46	.740
1867-Jan.....	70 80 0	.008 .009	4 0 9 0	.973 2.190	46	.740
July.....	70 80 0	.008 .009			39	.627
1868-Jan.....	80 0	.009			41	.660
July.....	85 0	.009			36	.579
1869-Jan.....	95 0	.010	3 0 9 0	.730 2.190	36	.579
July.....	120 0	.013			39	.627
1870-Jan.....	120 0	.013			42	.676
July.....	120 0	.013			38	.611
1871-Jan.....	80 0	.009	3 0 9 0	.730 2.190	35	.563
July.....	100 0	.011			33	.531
1872-Jan.....	100 0	.011			37	.595
July.....	105 0	.011			43	.692
1873-Jan.....	90 0	.010	3 6 10 0	.852 2.438	40	.644
July.....	102 6	.011			35	.563
1874-Jan.....	115 0	.013			34	.547
July.....	106 3	.012			36	.579
1875-Jan.....	138 9	.015	3 6 9 0	.852 2.190	35½	.567
July.....	132 6	.014	3 0 8 6	.730 2.068	36	.579
1876-Jan.....	137 6	.015	3 0 8 0	.730 1.947	34½	.555
July.....	131 3	.014	2 6 8 0	.608 1.947	34	.547
1877-Jan.....	113 9	.012	4 6 8 9	1.095 2.129	34	.547
July.....	117 6	.013	3 9 7 6	.913 1.825	34½	.555
1878-Jan.....	112 6	.012	6 0 7 0	1.460 1.703	34½	.551
July.....	107 6	.012	5 8 7 2	1.379 1.744	33	.531
1879-Jan.....	112 6	.012	5 7 7 0	1.359 1.703	28½	.459
July.....	112 6	.012	5 10 7 2	1.419 1.744	27	.434
1880-Jan.....	132 6	.014	7 0 8 9	1.703 2.129	30½	.491
July.....	125 0	.014	7 9 8 3	1.886 2.007	30¾	.495
1881-Jan.....	112 6	.012	7 0 8 1	1.703 1.967	28½	.455
July.....	100 0	.011	6 7 7 8	1.582 1.866	30¾	.495
1882-Jan.....	105 0	.011	6 7 7 8	1.602 1.866	28½	.455
July.....	100 0	.011	6 7 7 6	1.602 1.825	33	.531
1883-Jan.....	105 0	.011	6 6 7 0	1.582 1.703	35½	.571
July.....	107 6	.012	5 4 6 0	1.298 1.460	35	.563
1884-Jan.....	105 0	.011	5 6 6 4	1.338 1.541	32½	.523
July.....	107 6	.012	5 10 6 9	1.419 1.643	29½	.475
1885-Jan.....	102 6	.011	5 6 6 3	1.338 1.521	27½	.442
July.....	97 6	.011	5 6 6 3	1.338 1.521	26½	.422
1886-Jan.....	96 3	.011	5 4 6 3	1.298 1.521	24	.386
July.....	95 0	.010	4 10 5 2	1.176 1.257	23	.370
1887-Jan.....	105 0	.011	4 7 5 3	1.115 1.277	20½	.330
July.....	102 6	.011	4 7 5 3	1.115 1.277	23½	.382

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.					
	22. Dyes: logwood, Jamaica.		23. Dyes: indigo, Bengal.		24. Oils: seal, pale.	
	Per 2,240 pounds.	Per pound.	Per pound.	Per pound.	Per 252 gallons.	Per gallon.
	s. d.		s. d. s. d.		£	
1888—Jan.....	130 0	\$0.014	4 6 @ 5 2	\$1.095 @ \$1.257	22½	\$0.362
July.....	122 6	.013	4 6 5 2	1.095 1.257	21½	.346
1889—Jan.....	130 0	.014	4 2 5 2	1.014 1.257	23	.370
July.....	120 0	.013	4 3 5 3	1.034 1.277	22½	.362
1890—Jan.....	113 9	.012	4 2 4 10	1.014 1.176	25½	.406
July.....	125 0	.014	3 10 4 6	.933 1.095	26½	.426
1891—Jan.....	117 6	.013	4 9 5 6	1.156 1.338	26	.418
July.....	117 6	.013	4 9 5 0	1.156 1.217	25	.402
1892—Jan.....	120 0	.013	4 3 4 4	1.034 1.054	24	.386
July.....	122 6	.013	4 5 4 8	1.075 1.136	23	.370
1893—Jan.....	125 0	.014	4 5 4 8	1.075 1.136	20½	.330

Date.	Raw materials of manufacture.					
	25. Oils: olive, Levant, Galipoli.		26. Oils: palm.		27. Oils: petroleum.	
	Per 252 gallons.	Per gallon.	Per 252 gallons.	Per gallon.	Per gallon.	Per gallon.
	£	£	£	£	d.	
1845-1850.....	44	\$0.708	32	\$0.515	.....	.....
1851—Jan.....	43	.692	29	.467	.....	.....
July.....	39	.627	28	.450	.....	.....
1852—Jan.....	43	.692	27	.434	.....	.....
July.....	46	.740	28½	.459	.....	.....
1853—Jan.....	59½	.957	34½	.555	.....	.....
July.....	71	1.142	36	.579	.....	.....
1854—Jan.....	63	1.014	43	.692	.....	.....
July.....	55	.885	47	.756	.....	.....
1855—Jan.....	57	.917	48	.772	.....	.....
July.....	56½	.909	41	.660	.....	.....
1856—Jan.....	54	.869	48½	.780	.....	.....
July.....	47	.756	38	.611	.....	.....
1857—Feb.....	61	.981	47	.756	.....	.....
July.....	58	.933	47	.756	.....	.....
1858—Jan.....	51	.821	40	.644	.....	.....
July.....	50	.804	.....	.....	.....	.....
1859—Jan.....	.....	.....	40	.644	.....	.....
July.....	.....	.....	.....	.....	.....	.....
1860—Jan.....	57	.917	46	.740	.....	.....
July.....	62	.997	45½ @ 46	\$0.732 @ .740	.....	.....
1861—Jan.....	60	.965	47	.756	.....	.....
July.....	58	.933	44½	.716	.....	.....
1862—Jan.....	59 @ 59½	\$0.949 @ .957	43½ 44	.700 .708	.....	.....
July.....	56½ 57	.909 .917	42 42½	.676 .684	.....	.....
1863—Jan.....	60½ 61	.973 .981	41 41½	.660 .668	.....	.....
July.....	60	.965	36	.579	.....	.....
1864—Jan.....	58	.933	32 36	.515 .579	.....	.....
July.....	62	.997	32 36	.515 .579	.....	.....
1865—Jan.....	56 57	.901 .917	33 26	.531 .579	.....	.....
July.....	54	.869	33 37	.531 .595	.....	.....
1866—Jan.....	56½	.909	44	.708	.....	.....
July.....	60	.965	40	.644	.....	.....
1867—Jan.....	62	.997	43	.692	.....	.....
July.....	63	1.014	40	.644	.....	.....
1868—Jan.....	67	1.078	40½	.652	.....	.....
July.....	68	1.094	38	.611	.....	.....
1869—Jan.....	59	.949	41	.660	.....	.....
July.....	53	.853	41	.660	.....	.....
1870—Jan.....	53	.853	40½	.652	.....	.....
July.....	54	.869	39	.627	.....	.....
1871—Jan.....	48	.772	39	.627	17½	\$0.300
July.....	49	.788	37	.595	.....	.....
1872—Jan.....	54	.869	40	.644	.....	.....
July.....	49	.788	38	.611	.....	.....
1873—Jan.....	48	.772	39	.627	22	.372
July.....	41	.660	39½	.631	.....	.....
1874—Jan.....	48	.772	36½	.587	.....	.....
July.....	.....	.....	37	.595	.....	.....

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.					
	25. Oils: olive, Levant, Gal- lipoli.		26. oils: Palm.		27. Oils: petroleum.	
	Per 252 gal- lons.	Per gallon.	Per 252 gal- lons.	Per gallon.	Per gallon.	Per gallon.
	£		£		d	
1875—Jan.....			35	\$0.563	9½	\$0.160
July.....			34½	.555		
1876—Jan.....			39½	.631	11½	.194
July.....	45	\$0.724	36½	.583		
1877—Jan.....	48½	.780	40	.644	19½	.329
July.....	48¾	.784	39½	.631	10½	.175
1878—Jan.....			40½	.652	10½	.184
July.....	39	.627	37½	.607	9½	.160
1879—Jan.....	46	.740	36½	.587	9	.152
July.....	49	.788	32	.515		
1880—Jan.....	46	.740	36½	.591	6½	.110
July.....			31	.499	8	.135
1881—Jan.....	42	.676	32	.515	9¾	.165
July.....	37	.595	30½	.495	7	.118
1882—Jan.....	40	.644	32½	.519	5½	.097
July.....	38½	.619	32½	.527	5½	.089
1883—Jan.....	36½	.587	37½	.603	7	.118
July.....	37	.595	38½	.619	6½	.106
1884—Jan.....	40½	.652	43½	.700	7½	.125
July.....	38½	.619	33½	.539	6½	.106
1885—Jan.....	40½	.656	32	.515	7½	.122
July.....	36	.579	30	.483	6½	.112
1886—Jan.....	40½	.652	29	.467	6½	.110
July.....	38½	.619	24	.386	5½	.095
1887—Jan.....	38½	.619	24½	.398	5½	.099
July.....	35	.563	21	.338	5½	.091
1888—Jan.....	36½	.583	21½	.346	6½	.112
July.....	37	.595	20½	.326	5½	.094
1889—Jan.....			28½	.455	6½	.115
July.....	33½	.543	23½	.378	6½	.103
1890—Jan.....	37½	.599	25½	.414	6½	.106
July.....	39½	.636	25½	.414	5½	.092
1891—Jan.....	41½	.668	26½	.426	5½	.097
July.....	45	.724	25	.402	5½	.086
1892—Jan.....			23½	.382	5½	.086
July.....	34½	.555	23	.370	4½	.079
1893—Jan.....	36½	.587	26	.418	4½	.075

Date.	Raw materials of manufacture.					
	28. Timber: Dantzic and Memel.		29. Timber: Canadian yellow pine.		30. Tallow: town.	
	Per load.	Per load.	Per load.	Per load.	Per 112 pounds.	Per pound.
	s. s. d.		s. d. s.		s. d.	
1845-1850.....	71 @ 81 0	\$17.276 @ \$19.709	65 0 @ 71	\$15.816 @ \$17.276		
1851—Jan.....	60 70 0	14.600 17.033	55 0 60	13.383 14.600		
July.....	50 65 0	12.166 15.816	50 0 60	12.166 14.600		
1852—Jan.....	45 60 0	10.950 14.600	50 0 70	12.166 17.033		
July.....	52 65 0	12.653 15.816	70 0 80	17.033 19.466		
1853—Jan.....	67 77 0	16.303 18.736	70 0 85	17.033 20.683		
July.....	72 80 0	17.519 19.466	70 0 85	17.033 20.683		
1854—Jan.....	70 95 0	17.033 23.116	80 0 90	19.466 21.899		
July.....	65 95 0	15.816 23.116	75 0 130	18.249 31.632		
1855—Jan.....	80 95 0	19.466 23.116	65 0 95	15.816 23.116		
July.....	65 93 0	15.816 22.629	55 0 65	13.383 15.816		
1856—Jan.....	70 90 0	17.033 21.899	72 0 80	17.519 19.466		
July.....	60 80 0	14.600 19.466	75 0 80	18.249 19.466		
1857—Feb.....	65 85 0	15.816 20.683	80 0 95	19.466 23.116		
July.....	57 80 0	13.870 19.466	75 0 85	18.249 20.683		
1858—Jan.....	57 85 0	13.870 20.683	70 0 75	17.033 18.249		
1859—Jan.....	55 70 0	13.383 17.033	65 0 75	15.816 18.249		
1860—Jan.....	55 82 0	13.383 19.953	70 0 75	17.033 18.249		
July.....	50 77 6	12.166 18.858	70 0 75	17.033 18.249		
1861—Jan.....	60 85 0	14.600 20.683	70 0 75	17.033 18.249		
July.....	50 85 0	12.166 20.683	70 0 75	17.033 18.249		

TABLE 56.--*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.									
	28. Timber: Dantzic and Memel.				29. Timber: Canadian yellow pine.				30. Tallow: town.	
	Per load.		Per load.		Per load.		Per load.		Per 112 pounds.	Per pound.
	s.	s. d.			s.	d.	s.		s. d.	
1862—Jan.....	55	@ 80 0	\$13.383 @ \$19.466		70	0 @ 80	\$17.033 @ \$19.466			
July.....	55	75 0	13.383 18.249		70	0 75	17.033 18.249			
1863—Jan.....	50	75 0	12.166 18.249		80	0 95	19.466 23.116			
July.....	50	75 0	12.166 18.249		85	0 95	20.683 23.116			
1864—Jan.....	60	80 0	14.600 19.466		70	0 85	17.033 20.683			
July.....	60	85 0	14.600 20.683		70	0 85	17.033 20.683			
1865—Jan.....	60	85 0	14.600 20.683		60	0 75	14.600 18.249			
July.....	50	75 0	12.166 18.249		55	0 70	13.383 17.033			
1866—Jan.....	50	75 0	12.166 18.249		60	0 80	14.600 19.466			
July.....	50	75 0	12.166 18.249		60	0 95	14.600 23.116			
1867—Jan.....	50	75 0	12.166 18.249		60	0 90	14.600 21.899			
July.....	50	75 0	12.166 18.249		60	0 90	14.600 21.899			
1868—Jan.....	45	75 0	10.950 18.249		60	0 90	14.600 21.899			
July.....	45	85 0	10.950 20.683		60	0 90	14.600 21.899			
1869—Jan.....	40	80 0	9.733 19.466		70	0 90	17.033 21.899			
July.....	40	80 0	9.733 19.466		75	0 90	18.249 21.899			
1870—Jan.....	40	80 0	9.733 19.466		75	0 90	18.249 21.899			
July.....	40	80 0	9.733 19.466		80	0 100	19.466 24.333			
1871—Jan.....	50	100 0	12.166 24.333		80	0 100	19.466 24.333			
July.....	50	95 0	12.166 23.116		85	0 105	20.683 25.549			
1872—Jan.....	50	95 0	12.166 23.116		85	0 105	20.683 25.549			
July.....	50	95 0	12.166 23.116		90	0 120	21.899 29.199			
1873—Jan.....	50	120 0	12.166 29.199		85	0 105	20.683 25.549			
July.....	50	120 0	12.166 29.199		85	0 105	20.683 25.549			
1874—Jan.....	60	110 0	14.600 26.766		85	0 105	20.683 25.549			
July.....	55	130 0	13.383 31.632		100	0 130	24.333 31.632			
1875—Jan.....	50	90 0	12.166 21.899		110	0 130	26.766 31.632			
July.....	50	80 0	12.166 19.466		110	0 120	26.766 29.199			
1876—Jan.....	45	85 0	10.950 20.683		110	0 130	26.766 31.632			
July.....	45	85 0	10.950 20.683		110	0 130	26.766 31.632			
1877—Jan.....	50	110 0	12.166 26.766		100	0 110	24.333 26.766			
July.....	50	110 0	12.166 26.766		100	0 120	24.333 29.199			
1878—Jan.....	50	110 0	12.166 26.766		100	0 120	24.333 29.199			
July.....	40	90 0	9.733 21.899		80	0 100	19.466 24.333			
1879—Jan.....	40	110 0	9.733 26.766		85	0 95	20.683 23.116			
July.....	35	85 0	8.516 20.683		60	0 80	14.600 19.466			
1880—Jan.....	45	85 0	10.950 20.683		80	0 100	19.466 24.333			
July.....	40	85 0	9.733 20.683		70	0 95	17.033 23.116			
1881—Jan.....	45	90 0	10.950 21.899		80	0 100	19.466 24.333	36 0		\$0.078
July.....	45	80 0	10.950 19.466		80	0 100	19.466 24.333			
1882—Jan.....	50	90 0	12.166 21.899		80	0 100	19.466 24.333	43 0		.093
July.....	50	90 0	12.166 21.899		70	0 100	17.033 24.333	42 0		.091
1883—Jan.....	50	90 0	12.166 21.899		70	0 100	17.033 24.333	43 6		.095
July.....	45	90 0	10.950 21.899		60	0 100	14.600 24.333	42 9		.093
1884—Jan.....	50	90 0	12.166 21.899		60	0 90	14.600 21.899	42 9		.093
July.....	45	90 0	10.950 21.899		70	0 105	17.033 25.549	36 9		.080
1885—Jan.....	40	80 0	9.733 19.466		70	0 105	17.033 25.549	35 3		.077
July.....	30	80 0	7.300 19.466		55	0 100	13.383 24.333	31 6		.068
1886—Jan.....	30	80 0	7.300 19.466		55	0 100	13.383 24.333	26 3		.057
July.....	30	80 0	7.300 19.466		55	0 100	13.383 24.333	24 9		.054
1887—Jan.....	30	80 0	7.300 19.466		50	0 90	12.166 21.899	27 0		.059
July.....	30	85 0	7.300 20.683		60	0 90	14.600 21.899	23 3		.051
1888—Jan.....	30	80 0	7.300 19.466		60	0 80	14.600 19.466	26 3		.057
July.....	35	80 0	8.516 19.466		65	0 80	15.816 19.466	23 3		.051
1889—Jan.....	40	80 0	9.733 19.466		90	0 110	21.899 26.766	34 6		.075
July.....	40	70 0	9.733 17.033		90	0 110	21.899 26.766	27 9		.060
1890—Jan.....	35	70 0	8.516 17.033		97 6	115	23.724 27.982	27 0		.059
July.....	30	70 0	7.300 17.033		75 0	110	18.249 26.766	27 0		.059
1891—Jan.....	40	75 0	9.733 18.249		75 0	110	18.249 26.766	27 0		.059
July.....	40	75 0	9.733 18.249		75 0	110	18.249 26.766	27 9		.060
1892—Jan.....	40	70 0	9.733 17.033		75 0	110	18.249 26.766	27 9		.060
July.....	30	70 0	7.300 17.033		60 0	100	14.600 24.333	27 9		.060
1893—Jan.....	30	70 0	7.300 17.033		60 0	100	14.600 24.333	27 9		.060

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.									
	30. Tallow: St. Petersburg, first Y. C.		31. Leather: English butts, 25-36.				32. Saltpetre: English, refined.			
	Per 112 pounds.	Per pound.	Per pound.	Per pound.			Per 112 pounds.	Per pound.		
	s. d.	s. d.		d. d.			s. d.	s. d.		
1845-1850.....		44 0	\$0.096	13 @ 23	\$0.264 @ \$0.466		26 0 @ 28 0		\$0.056 @ \$0.061	
1851-Jan.....		38 0	.083	12 23	.243 .466		27 0 29 0		.059 .063	
July.....		37 6	.081	12 23	.243 .466		25 0 28 6		.054 .062	
1852-Jan.....		37 0	.080	12 23	.243 .466		25 0 28 6		.054 .062	
July.....		38 0	.083	12 21	.243 .426		25 0 28 6		.054 .062	
1853-Jan.....		43 0	.093	12 21	.243 .426		24 0 29 0		.052 .063	
July.....		49 0	.106	14 22	.284 .446		24 0 28 0		.052 .061	
1854-Jan.....		60 0	.130	15 20	.304 .406		27 0 31 0		.059 .067	
July.....		64 0	.139	15 22	.304 .446		28 0 35 0		.061 .076	
1855-Jan.....		64 6	.140	15 22	.304 .446		21 6 29 0		.047 .063	
July.....		52 0	.113	15 22	.304 .446		22 6 31 6		.049 .068	
1856-Jan.....		68 0	.148	16 26	.324 .527		31 0 39 0		.067 .085	
July.....		46 0	.100	17 25	.345 .507		28 0 32 0		.061 .070	
1857-Feb.....		62 0	.135	24 31	.487 .629		37 0 46 0		.080 .100	
July.....		65 0	.141	24 30	.487 .608			38 0		.083
1858-Jan.....		52 0	.113	20 27	.406 .548			43 0		.093
1859-Jan.....		51 0	.111	12 30	.243 .608			45 0		.098
1860-Jan.....		58 0	.126	18 32	.365 .649			40 0		.087
July.....	52 9 @	53 0	.115	20 32	.406 .649		42 0 42 6		.091 .092	
1861-Jan.....		59 9	.130	17 30	.345 .608		42 6 43 0		.092 .093	
July.....		53 6	.116	17 30	.345 .608		37 0 38 0		.080 .083	
1862-Jan.....	51 0	51 6	\$0.111 @ .112	17 31	.345 .629		44 0 45 0		.096 .098	
July.....		47 0	.102	17 31	.345 .629		45 0 46 0		.098 .100	
1863-Jan.....		44 6	.097	17 31	.345 .629		42 0 43 0		.091 .093	
July.....		42 0	.091	17 31	.345 .629		39 0 40 0		.085 .087	
1864-Jan.....		41 0	.089	17 31	.345 .629			41 0		.089
July.....		41 0	.089	16 31	.324 .629			38 0		.083
1865-Jan.....		41 0	.089	16 31	.324 .629			35 0		.076
July.....		41 0	.089	16 31	.324 .629			30 0		.065
1866-Jan.....		49 0	.106	16 31	.324 .629			28 0		.061
July.....		42 0	.091	11 26	.223 .527			27 0		.059
1867-Jan.....		44 6	.097	15 31	.304 .629			24 0		.052
July.....		44 6	.097	15 31	.304 .629			22 6		.049
1868-Jan.....		43 0	.093	18 31	.365 .629			23 0		.050
July.....		43 0	.093	18 31	.365 .629			23 0		.050
1869-Jan.....		49 0	.106	18 31	.365 .629			28 0		.061
July.....		44 0	.096	18 28	.365 .568			26 0		.056
1870-Jan.....		46 0	.100	18 28	.365 .568			26 0		.056
July.....		45 0	.098	18 28	.365 .568			26 0		.056
1871-Jan.....		45 0	.098	18 28	.365 .568			31 0		.067
July.....		43 0	.093	18 28	.365 .568			30 0		.065
1872-Jan.....		49 0	.106	20 28	.406 .568			35 0		.076
July.....		44 0	.096	20 28	.406 .568			33 0		.072
1873-Jan.....		43 0	.093	21 31	.426 .629			33 0		.072
July.....		43 0	.093	22 31	.446 .629			30 6		.066
1874-Jan.....		41 0	.089	22 31	.446 .629			29 3		.064
July.....		41 6	.090	22 31	.446 .629			26 0		.056
1875-Jan.....		47 6	.103	22 33	.446 .669			25 9		.056
July.....		41 0	.089	22 32	.446 .649			23 9		.052
1876-Jan.....		53 0	.115	21 32	.426 .649			23 3		.051
July.....		47 0	.102	18 32	.365 .649			22 1½		.048
1877-Jan.....		45 0	.098	18 34	.365 .690					
July.....		43 6	.095	20 34	.406 .690			29 0		.063
1878-Jan.....		39 6	.086	20 34	.406 .690			27 0		.059
July.....		38 0	.083	20 34	.406 .690			25 6		.055
1879-Jan.....		36 6	.079	19 33	.385 .669			24 3		.053
July.....		35 3	.077	18 34	.365 .690			23 9		.052
1880-Jan.....		45 0	.098	18 34	.365 .690			26 9		.058
July.....		41 0	.089	18 34	.365 .690			26 9		.058
1881-Jan.....		39 3	.085	18 34	.365 .690			28 3		.061
July.....		41 0	.089	18 32	.365 .649			25 10		.056
1882-Jan.....		45 6	.099	18 32	.365 .649			29 3		.064
July.....		55 0	.119	18 32	.365 .649			26 3		.057
1883-Jan.....		49 0	.106	18 32	.365 .649			26 0		.056
July.....		50 6	.110	18 32	.365 .649			24 6		.053
1884-Jan.....		51 6	.112	18 32	.365 .649			24 3		.053
July.....		47 0	.102	18 32	.365 .649			23 0		.050
1885-Jan.....		41 6	.090	19 33	.385 .669			22 6		.049
July.....		41 6	.090	18 33	.365 .669			22 0		.048
1886-Jan.....		35 0	.076	17 33	.349 .669			21 9		.047
July.....		30 0	.065	17 33	.349 .669			21 6		.047
1887-Jan.....		31 0	.067	16 33	.324 .669			21 0		.046
July.....				15 33	.304 .669			21 1½		.046

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.					
	30. Tallow: St. Petersburg, first Y. C.		31. Leather: English butts, 25-36.		32. Saltpetre: English, refined.	
	Per 112 pounds.	Per pound.	Per pound.	Per pound.	Per 112 pounds.	Per pound.
	<i>s. d.</i>		<i>d. d.</i>		<i>s. d.</i>	
1888—Jan.....	32 0	\$0.070	15 @ 33	\$0.304 @ \$0.669	21 4½	\$0.046
July.....	35 6	.077	14 33	.284 .669	21 4½	.046
1889—Jan.....	38 6	.084	14 33	.284 .669	21 4½	.046
July.....	38 6	.084	14 33	.284 .669	21 6	.047
1890—Jan.....	38 6	.084	14 33	.284 .669	21 9	.047
July.....	38 6	.084	14 33	.284 .669	21 9	.047
1891—Jan.....	39 0	.085	14 33	.284 .669	21 9	.047
July.....	39 9	.086	14 33	.284 .669	21 6	.047
1892—Jan.....	43 0	.093	14 33	.284 .669	21 3	.046
July.....	45 0	.098	12 34	.243 .690	21 6	.047
1893—Jan.....	45 0	.098	12 34	.243 .690	20 10½	.045

Date.	Raw materials of manufacture.		Metals.			
	33. Ashes: Canadian, pearl.		34. Copper: tough cake.		35. Iron: British bars.	
	Per 112 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.
	<i>s. d.</i>	<i>s. d.</i>	<i>£ £</i>		<i>£ £</i>	
1845-1850.....		\$0.067	88	\$0.191	8	\$38.932
1851—Jan.....		.065	84	.182	6	29.199
July.....	30 6 @ 31 0	\$0.066 @ .067	84	.182	5½	26.766
1852—Jan.....	28 0 28 6	.061 .062	88½	.192	5	24.333
July.....	27 6 28 0	.060 .061	98	.213	5½	26.766
1853—Jan.....	27 6 28 0	.060 .061	102½	.223	9½	46.232
July.....		.061	107	.232	9½	46.232
1854—Jan.....		.063	126	.274	9½	45.015
July.....			126	.274	10½	51.098
1855—Jan.....	33 6 34 0	.073 .074	126	.274	8½	41.365
July.....		.074	126	.274	8½	42.582
1856—Jan.....	45 0 46 0	.098 .091	126	.274	9	43.799
July.....		.091	107½	.234	9	43.799
1857—Feb.....		.098	135	.293	9	43.799
July.....		.098	117	.254	8½	40.149
1858—Jan.....		.078	107	.232	7½	35.282
1859—Jan.....		.072	107	.232	7	34.066
1860—Jan.....		.072	112	.243	6½	31.632
July.....			192½	.223	6½ @ 6½	\$31.632 @ 32.849
1861—Jan.....			102½	.223	6½	31.632 32.849
July.....			93	.202	5¼	27.982 29.199
1862—Jan.....			107½	.234	6	29.199 30.416
July.....			91 @ 92½	\$0.198 @ .201	5¼	27.982 30.416
1863—Jan.....			96	.209	6½	31.632 32.849
July.....	32 0 33 0	.070 .072	92	.200	6½	31.632 32.849
1864—Jan.....		.065	108	.235	8½	41.365 43.799
July.....		.074	93	.202	8	38.932 41.365
1865—Jan.....		.067	89	.193	7½	36.499
July.....		.063	86½	.188	7½	37.715 40.149
1866—Jan.....		.087	106	.230	7½	37.715 38.932
July.....		.063	85½	.186	7½	36.499
1867—Jan.....		.072	86	.187	7	34.066
July.....		.070	78	.169	6½	32.849
1868—Jan.....		.067	76	.165	6½	31.632
July.....		.072	79	.172	6½	30.416
1869—Jan.....		.067	78	.169	6½	31.632
July.....		.070	73½	.160	6½	32.849
1870—Jan.....		.067	73	.159	7½	35.282
July.....		.067	73	.159	7½	37.715
1871—Jan.....		.067	71	.154	7	34.066
July.....		.078	74	.161	7½	35.282
1872—Jan.....		.098	90	.196	8½	42.582
July.....		.089	112	.243	12½	60.831
1873—Jan.....		.085	92½	.201	10½	49.882
July.....		.084	91	.198	12½	59.615
1874—Jan.....		.078	92	.200	12½	59.615
July.....			86½	.188	9½	47.448

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Raw materials of manufacture.		Metals.			
	33. Ashes: Canadian, pearl.		34. Copper: tough cake.		35. Iron: British bars.	
	Per 112 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.
	s. d.		£		£	
1875—Jan	40 0	\$0.087	92	\$0.200	9 $\frac{3}{8}$	\$45.623
July	42 0	.091	88	.191	8 $\frac{1}{4}$	40.140
1876—Jan	38 3	.083	88	.191	7 $\frac{7}{8}$	38.324
July	27 6	.060	82 $\frac{1}{2}$	.179	7 $\frac{1}{4}$	35.282
1877—Jan	34 6	.075	81 $\frac{1}{2}$	.177	7 $\frac{1}{8}$	34.674
July	38 6	.084	75 $\frac{1}{2}$	.164	7	34.066
1878—Jan	31 0	.067	71	.154	6 $\frac{1}{4}$	30.416
July	33 0	.072	68 $\frac{1}{2}$	.149	5 $\frac{1}{4}$	27.982
1879—Jan	36 0	.078	63 $\frac{1}{2}$	.138	5 $\frac{3}{8}$	26.157
July	33 0	.072	60 $\frac{3}{4}$	.132	5 $\frac{3}{8}$	26.157
1880—Jan	33 3	.072	71 $\frac{1}{4}$	.155	7 $\frac{7}{8}$	38.324
July	33 0	.072	64	.139	5 $\frac{7}{8}$	28.591
1881—Jan	36 0	.078	66 $\frac{1}{4}$	.144	5 $\frac{1}{4}$	27.982
July	37 9	.082	64 $\frac{3}{4}$	.141	5 $\frac{1}{4}$	27.982
1882—Jan	35 0	.076	75 $\frac{1}{2}$	.164	6 $\frac{1}{4}$	32.849
July	48 0	.104	70	.152	6 $\frac{1}{4}$	30.416
1883—Jan	50 6	.110	70 $\frac{1}{2}$	.153	6	29.199
July	43 6	.095	68	.148	5 $\frac{7}{8}$	28.591
1884—Jan	52 6	.114	62 $\frac{1}{2}$	.135	5 $\frac{1}{2}$	26.766
July	40 9	.089	59 $\frac{3}{4}$	.130	6 $\frac{1}{8}$	29.807
1885—Jan	29 0	.063	53	.115	6	29.199
July	31 0	.067	48 $\frac{1}{2}$	.105	5 $\frac{1}{2}$	26.766
1886—Jan	41 0	.089	44	.096	5 $\frac{1}{4}$	25.549
July	38 0	.083	42 $\frac{1}{2}$	.092	5 $\frac{1}{4}$	25.549
1887—Jan	47 6	.103	42 $\frac{3}{4}$	.093	5	24.333
July	42 0	.091	43 $\frac{1}{2}$	.095	5	24.333
1888—Jan	45 6	.099	80 $\frac{1}{2}$	.175	5 $\frac{3}{8}$	26.157
July	49 0	.106	75	.163	5 $\frac{3}{8}$	26.157
1889—Jan	38 0	.083	78 $\frac{1}{2}$	.171	5 $\frac{3}{8}$	27.374
July	34 0	.074	46 $\frac{1}{2}$	.100	5 $\frac{1}{2}$	26.766
1890—Jan	33 0	.072	56 $\frac{1}{2}$	.122	8 $\frac{1}{4}$	42.582
July	34 6	.075	59 $\frac{1}{2}$	.129	8	38.932
1891—Jan	42 0	.091	58 $\frac{1}{2}$	.127	7 $\frac{5}{8}$	37.107
July	46 0	.100	58 $\frac{1}{2}$	.127	6 $\frac{3}{8}$	31.024
1892—Jan	45 0	.098	48 $\frac{1}{2}$	.105	6 $\frac{3}{8}$	31.024
July	45 0	.098	48 $\frac{3}{4}$	.106	6 $\frac{3}{8}$	31.024
1893—Jan	45 0	.098	51	.111	6 $\frac{3}{8}$	31.024

Date.	Metals.					
	36. Iron: Swedish bars.		37. Lead: English pig.		38. Steel: rails, heavy.	
	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.
	£	£	£	£		
1845-1850	11 $\frac{1}{8}$	\$56.573	17 $\frac{1}{2}$	\$0.038	.....	.....
1851—Jan	11 $\frac{3}{4}$	57.181	17 $\frac{1}{2}$	.038	.....	.....
July	11 $\frac{3}{4}$	57.181	17	.037	.....	.....
1852—Jan	11 $\frac{3}{4}$	57.181	17	.037	.....	.....
July	11 $\frac{3}{4}$	57.181	17 $\frac{1}{2}$	.038	.....	.....
1853—Jan	11 $\frac{1}{2}$	54.748	24	.052	.....	.....
July	11 $\frac{1}{2}$	55.965	24 $\frac{1}{2}$	.053	.....	.....
1854—Jan	12 $\frac{1}{2}$	60.831	23 $\frac{1}{2}$	.051	.....	.....
July	12 $\frac{1}{2}$	60.831	25	.054	.....	.....
1855—Jan	12 $\frac{1}{2}$	60.831	23	.050	.....	.....
July	14	68.131	22 $\frac{1}{2}$	.049	.....	.....
1856—Jan	18	87.597	26	.056	.....	.....
July	16	77.864	25 @ 26 $\frac{1}{2}$	\$0.054 @ .058	.....	.....
1857—Feb	15	72.998	23	.050	.....	.....
July	16	77.864	25	.054	.....	.....
1858—Jan	15	72.998	23	.050	.....	.....
1859—Jan	13	63.265	22	.048	.....	.....
1860—Jan	11 $\frac{1}{2}$	55.965	22	.048	.....	.....
July	11 $\frac{3}{4}$ @ 12	\$55.965 @ 58.398	21 $\frac{1}{2}$ 22	.047 .048	.....	.....
1861—Jan	11 $\frac{3}{4}$ 12	55.965 58.398	21 $\frac{1}{2}$ 22	.046 .048	.....	.....
July	11 11 $\frac{1}{2}$	53.532 55.965	19 $\frac{3}{4}$ 20	.043 .043	.....	.....
1862—Jan	11 $\frac{1}{2}$ 12	55.965 58.398	20 20 $\frac{1}{2}$	.043 .045	.....	.....
July	11 $\frac{1}{2}$ 12	55.965 58.398	20 $\frac{3}{4}$ 21 $\frac{1}{2}$	.045 .047	.....	.....
1863—Jan	11 $\frac{1}{2}$ 12	55.965 58.398	21 $\frac{1}{2}$ 22	.047 .048	.....	.....
July	11 $\frac{1}{2}$ 11 $\frac{1}{2}$	54.748 55.965	20 $\frac{1}{2}$ 21	.045 .046	.....	.....

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Metals.					
	36. Iron: Swedish bars.		37. Lead: English pig.		38. Steel: rails, heavy.	
	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.
	£	£	£		£	
1864—Jan.....	11½ @ 12	\$55.965 @ \$58.398	21	\$0.046	.....	.....
July.....	12½	60.831	21½	.047	.....	.....
1865—Jan.....	12½	60.831	20	.043	.....	.....
July.....	11¾	57.181	19	.041	.....	.....
1866—Jan.....	11¾	57.181	21½	.047	.....	.....
July.....	11	53.532	20	.043	.....	.....
1867—Jan.....	10¼	49.882	20	.043	.....	.....
July.....	10¼	49.882	20	.043	.....	.....
1868—Jan.....	10¼	49.882	19½	.042	.....	.....
July.....	10¼	49.882	19½	.042	.....	.....
1869—Jan.....	10	48.665	19	.041	.....	.....
July.....	10	48.665	19	.041	.....	.....
1870—Jan.....	10	48.665	19	.041	.....	.....
July.....	10	48.665	18	.039	.....	.....
1871—Jan.....	10	48.665	18	.039	.....	.....
July.....	10	48.665	18	.039	.....	.....
1872—Jan.....	10½	51.098	19	.041	.....	.....
July.....	17	82.731	20	.043	.....	.....
1873—Jan.....	17½	85.164	21¾	.047	.....	.....
July.....	20½	99.763	23½	.051	.....	.....
1874—Jan.....	20½	99.763	24½	.053	.....	.....
July.....	20½	99.763	21½	.046	.....	.....
1875—Jan.....	17¾	86.380	24	.052	.....	.....
July.....	16½	80.297	22	.048	.....	.....
1876—Jan.....	16½	80.297	22¾	.050	8½	\$41.365
July.....	15½	75.431	21½	.046	.....	.....
1877—Jan.....	13¼	64.481	22	.048	7½	35.282
July.....	11½	55.965	20¾	.045	6¾	33.457
1878—Jan.....	11½	55.965	19½	.042	6½	31.632
July.....	10¾	52.315	17½	.037	.....	.....
1879—Jan.....	9¾	47.448	14½	.032	5¾	27.982
July.....	9¾	45.015	13¾	.029	5½	26.766
1880—Jan.....	10¼	49.882	19½	.043	8¾	42.582
July.....	10	48.665	16	.035	5¾	27.982
1881—Jan.....	9¾	47.448	15¼	.033	6¼	30.416
July.....	9¼	45.015	13¼	.029	6	29.199
1882—Jan.....	10¼	49.882	15½	.033	6¾	33.457
July.....	9¾	47.448	14½	.032	5½	27.982
1883—Jan.....	9¾	47.448	14½	.032	5½	26.766
July.....	.....	.....	13½	.029	5½	24.941
1884—Jan.....	.....	.....	12¼	.027	4½	21.899
July.....	.....	.....	10¾	.023	4¼	23.116
1885—Jan.....	.....	.....	11¼	.024	4¼	23.116
July.....	.....	.....	12½	.027	4¾	23.116
1886—Jan.....	.....	.....	12½	.027	4¾	23.116
July.....	.....	.....	13¾	.029	3¾	18.249
1887—Jan.....	.....	.....	12½	.028	4¾	20.379
July.....	.....	.....	12¼	.027	4½	20.074
1888—Jan.....	.....	.....	15½	.034	4¾	20.379
July.....	.....	.....	13	.028	3¾	18.858
1889—Jan.....	.....	.....	13¼	.029	4½	20.074
July.....	.....	.....	12½	.027	4¾	23.116
1890—Jan.....	10¾	50.490	14½	.031	7	34.066
July.....	.....	.....	13¾	.029	4¾	23.724
1891—Jan.....	9¼	45.015	13¾	.029	4½	24.029
July.....	8¾	40.149	13	.028	4¾	21.595
1892—Jan.....	8¾	42.582	11½	.025	4¾	20.379
July.....	.....	.....	11½	.024	4½	20.074
1893—Jan.....	8½	41.365	10½	.022	4	19.466

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Metals.				Manchester markets.	
	39. Tin: English bars.		40. Steam coal: average, at Newcastle.		41. Raw cotton: upland, middling.	
	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per pound.
	£	\$	s. d.		d.	\$
1845-1850.....	85½	\$0.186			5½	\$0.107
1851—Jan.....	84	.182				
July.....	85	.185				
1852—Jan.....	90	.196				
July.....	88	.191				
1853—Jan.....	103	.224				
July.....	108	.235				
1854—Jan.....	126	.274				
July.....	120	.261				
1855—Jan.....	117	.254				
July.....	115	.250				
1856—Jan.....	127	.276				
July.....	134	.291				
1857—Feb.....	143	.311				
July.....	143	.311				
1858—Jan.....	109	.237				
1859—Jan.....	124	.269				
1860—Jan.....	139	.302				
July.....	137	.298				
1861—Jan.....	137	.298				
July.....	126	.274				
1862—Jan.....	121	.263				
July.....	115	.250				
1863—Jan.....	116	.252				
July.....	123	.267				
1864—Jan.....	113	.245				
July.....	109	.237				
1865—Jan.....	99	.215				
July.....	98	.213				
1866—Jan.....	104	.226				
July.....	86	.187				
1867—Jan.....	85	.185			15½	.309
July.....	90	.196				
1868—Jan.....	96	.209				
July.....	97	.211				
1869—Jan.....	111	.241	10 0	\$2.433	11	.223
July.....	125	.272				
1870—Jan.....	118	.256				
July.....	138	.300				
1871—Jan.....	135	.293	11 0	2.677	8	.162
July.....	133	.289				
1872—Jan.....	153	.332				
July.....	157	.341				
1873—Jan.....	146	.317	24 0	5.840	10	.203
July.....	138	.300				
1874—Jan.....	122	.265				
July.....	104	.226				
1875—Jan.....	101	.219			7½	.157
July.....	91	.198				
1876—Jan.....	85	.185			7	.142
July.....	80½	.175				
1877—Jan.....	81	.176	11 3	2.737	6½	.137
July.....	74	.161			6¼	.127
1878—Jan.....	72½	.158	10 0	2.433	6¾	.129
July.....	66½	.144			6¼	.127
1879—Jan.....	65½	.142	8 6	2.068	5¾	.109
July.....	64	.139			6½	.141
1880—Jan.....	94	.204	8 8	2.109	6½	.141
July.....	87	.189	9 3	2.251	6¼	.137
1881—Jan.....	94	.204	9 1	2.210	6¼	.137
July.....	95½	.207	9 0	2.190	6¼	.126
1882—Jan.....	114½	.249	9 3	2.251	6½	.134
July.....	104	.226	9 6	2.312	6¾	.140
1883—Jan.....	98	.213	9 6	2.312	5¾	.117
July.....	97½	.212	9 9	2.372	5½	.112
1884—Jan.....	88½	.192	10 0	2.433	6	.122
July.....	86	.187	10 6	2.555	6¾	.126
1885—Jan.....	77½	.168	10 6	2.555	6	.122
July.....	93½	.203	9 6	2.312	5½	.115
1886—Jan.....	97	.211	8 3	2.007	4½	.100
July.....	104½	.227	8 0	1.947	5¾	.105
1887—Jan.....	103½	.225	7 6	1.825	5½	.107
July.....	106	.230	8 6	2.068	5½	.120

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Metals.				Manchester markets.	
	39. Tin: English bars.		40. Steam coal: average, at Newcastle.		41. Raw cotton: upland, middling.	
	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per pound.
1888—Jan.....	£ 148	\$0.322	s. d. 7 6	\$1.825	d. 5½	\$0.117
July.....	92½	.201	7 7½	1.855	5½	.113
1889—Jan.....	101½	.221	8 0	1.947	5½	.109
July.....	.....	.....	9 0	2.190	6½	.124
1890—Jan.....	103	.224	11 6	2.798	5½	.114
July.....	.....	.....	12 0	2.920	6½	.131
1891—Jan.....	.....	.....	12 9	3.102	5½	.105
July.....	97	.211	a 13 7½	3.315	4½	.091
1892—Jan.....	90¼	.196	10 0	2.433	4½	.086
July.....	106½	.231	9 10	2.393	4½	.082
1893—Jan.....	96	.209	8 11	2.170	5½	.107

Date.	Manchester markets.					
	42. Raw cotton: upland, middling, fair.		43. Raw cotton: Surat Dhollerah, fair.		44. Raw cotton: Pernambuco, fair.	
	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
1845-1850.....	d. 5½	\$0.112	d. d. 5½	\$0.112	d. 8½	\$0.167
1851—Jan.....	7½	.160	4½ @ 5	\$0.094 @ .101	8½	.170
July.....	5½	.117	.....	.....	7	.142
1852—Jan.....	4½	.100	.....	.....	6½	.124
July.....	5½	.119	.....	.....	7	.142
1853—Jan.....	5½	.117	.....	.....	6½	.137
July.....	6½	.132	.....	.....	6½	.134
1854—Jan.....	6½	.129	.....	.....	7½	.147
July.....	6½	.127	.....	.....	6½	.140
1855—Jan.....	5½	.109	.....	.....	6½	.129
July.....	7	.142	.....	.....	7½	.152
1856—Jan.....	5½	.119	.....	.....	6½	.132
July.....	6½	.134	.....	.....	7	.142
1857—Feb.....	7½	.157	.....	.....	8	.162
July.....	8½	.167	4½ 5½	.094 .117	8	.162
1858—Jan.....	6½	.127	3½ 5½	.071 .107	7½	.144
1859—Jan.....	5½	.117	4½ 6½	.091 .124	8	.162
1860—Jan.....	5½	.107	3½ 5½	.076 .114	8½	.172
July.....	7	.142	2½ 5½	.051 .109	8	.162
1861—Jan.....	7½	.152	4½ 5½	.086 .104	9	.183
July.....	8½	.170	4½ 6½	.094 .134	9	.183
1862—Jan.....	12½	.248	5½ 10½	.112 .208	13	.264
July.....	15½	.309	11 15½	.223 .314	16½	.335
1863—Jan.....	25½	.522	17½ 17½	.350 .350	23½	.476
July.....	23	.466	17½ 18	.360 .365	21½	.441
1864—Jan.....	.....	.....	23½	.476	28	.568
July.....	.....	.....	22	.446	29	.588
1865—Jan.....	22½	.558	20	.406	27	.548
July.....	.....	.....	14½	.294	19½	.390
1866—Jan.....	22	.446	17½	.350	22	.446
July.....	14½	.294	9½	.188	14½	.294
1867—Jan.....	16	.324	12½	.253	15½	.319
July.....	12½	.253	9	.183	12	.243
1868—Jan.....	8	.162	5½	.112	7½	.150
July.....	12½	.248	9½	.188	11	.223
1869—Jan.....	11½	.233	8½	.172	11½	.233
July.....	13	.264	10½	.208	11½	.236
1870—Jan.....	11½	.236	9½	.193	11½	.241
July.....	11½	.241	8½	.172	10½	.210
1871—Jan.....	8½	.167	6½	.132	8½	.177
July.....	.....	.....	6½	.140	8½	.170
1872—Jan.....	.....	.....	7½	.157	9½	.200
July.....	.....	.....	7½	.152	11	.223
1873—Jan.....	.....	.....	7½	.147	10½	.210
July.....	.....	.....	7½	.152	9½	.188
1874—Jan.....			6½	.134	8½	.177
July.....			6	.122	8½	.167
1875—Jan.....			6½	.124	7½	.160
July.....			6	.122	7½	.160

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TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Continued.*

Date.	Manchester markets.					
	42. Raw cotton: upland, middling, fair.		43. Raw cotton: Surat Dhollerah, fair.		44. Raw cotton: Pernambuco, fair.	
	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
	d.		d.		d.	
1876—Jan			5 $\frac{7}{8}$	\$0.119	8 $\frac{3}{4}$	\$0.177
July			5 $\frac{1}{2}$	.104	6 $\frac{5}{8}$	.134
1877—Jan			5 $\frac{1}{2}$	.109	6 $\frac{1}{8}$	.138
July					6 $\frac{3}{4}$	.137
1878—Jan			5 $\frac{1}{4}$	.107	6 $\frac{3}{4}$	.137
July			5 $\frac{1}{2}$	.104	6 $\frac{3}{8}$	.129
1879—Jan			4	.081	5 $\frac{7}{8}$	.119
July	6 $\frac{3}{8}$	\$0.126	5 $\frac{3}{8}$	.109	7	.142
1880—Jan	7 $\frac{1}{4}$	.147	5 $\frac{5}{8}$	.114	7 $\frac{1}{4}$	.147
July	7	.142	5	.101	6 $\frac{7}{8}$	.140
1881—Jan	7	.142	5 $\frac{1}{4}$	.107	7 $\frac{1}{8}$	.143
July	6 $\frac{7}{8}$	.140	4 $\frac{1}{2}$	.084	6 $\frac{1}{8}$	.128
1882—Jan	7	.142	4 $\frac{5}{8}$	.094	6 $\frac{1}{8}$	.138
July	7 $\frac{3}{8}$	.150	4 $\frac{1}{2}$	.091	7 $\frac{1}{4}$	.147
1883—Jan	6 $\frac{1}{2}$	.124	3 $\frac{3}{4}$	.076	6 $\frac{3}{8}$	.129
July	6 $\frac{1}{2}$	.124	3 $\frac{7}{8}$	.079	5 $\frac{7}{8}$	.119
1884—Jan	6 $\frac{3}{8}$	.129	4	.081	6 $\frac{1}{8}$	.124
July	6 $\frac{1}{2}$	.132	4	.081	6 $\frac{3}{8}$	.129
1885—Jan	6 $\frac{5}{8}$	.128	4 $\frac{1}{2}$	.086	6 $\frac{1}{4}$	.127
July	5 $\frac{1}{8}$	.120	4 $\frac{5}{8}$	.087	5 $\frac{1}{4}$	.117
1886—Jan	5 $\frac{3}{8}$	.105	3 $\frac{1}{8}$	.080	5 $\frac{3}{8}$	.109
July	5 $\frac{7}{8}$	.110	3 $\frac{1}{2}$	.071	5 $\frac{7}{8}$	.110
1887—Jan	5 $\frac{3}{8}$	.109	3 $\frac{9}{8}$	.072	5 $\frac{5}{8}$	.108
July	6 $\frac{1}{8}$	.123	3 $\frac{5}{8}$	.074	5 $\frac{7}{8}$	.119
1888—Jan	5 $\frac{7}{8}$	.119	3 $\frac{1}{8}$	.077	5 $\frac{1}{8}$	.118
July	5 $\frac{3}{4}$	.117	3 $\frac{1}{8}$	.077	5 $\frac{1}{8}$	.115
1889—Jan	5 $\frac{3}{8}$	.114	4 $\frac{5}{8}$	.087	6	.122
July	5 $\frac{1}{8}$	.115	4 $\frac{5}{8}$	.087	6 $\frac{3}{8}$	.126
1890—Jan	5 $\frac{1}{8}$	.115	4 $\frac{5}{8}$	.087	6 $\frac{3}{8}$	.126
July	6 $\frac{1}{8}$	.133	4 $\frac{3}{8}$	.085	6 $\frac{3}{8}$	.134
1891—Jan	5 $\frac{7}{8}$	.110	3 $\frac{7}{8}$	.070	5 $\frac{3}{4}$	.117
July	4 $\frac{1}{8}$	.098	3 $\frac{1}{8}$	.062	5 $\frac{1}{4}$	.107
1892—Jan	4 $\frac{3}{8}$	.089	3 $\frac{5}{8}$	.067	4 $\frac{7}{8}$	.100
July	4 $\frac{1}{8}$	.093	2 $\frac{1}{8}$	.060	4 $\frac{1}{8}$	.087
1893—Jan	5 $\frac{3}{8}$	.109	3 $\frac{7}{8}$	.079	5 $\frac{1}{8}$	.108

Date.	Manchester markets.					
	45. Cotton yarn: mule No. 40, fair, second quality.		46. Cotton cloths: printers', 26-inch, 66 reed, 20 yards, 4 pounds, 2 ounces.		47. Cotton cloths: Gold-end shirtings, 40-inch, 66 reed, 37 $\frac{1}{2}$ yards, 8 pounds, 12 ounces.	
	Per pound.	Per pound.	Each.	Each.	Each.	Each.
	d.		s. d.		s. d.	
1845—1850	9 $\frac{3}{4}$	\$0.198	4 7 $\frac{1}{4}$	\$1.130	8 10	\$2.149
1851—Jan	12 $\frac{1}{2}$	.253	5 2	1.257	10 10 $\frac{1}{2}$	2.646
July	9 $\frac{7}{8}$	.200	4 3	1.034	8 9	2.129
1852—Jan	9	.183	4 4 $\frac{1}{2}$	1.065	8 9	2.129
July	9 $\frac{3}{4}$	.198	4 6	1.095	9 1 $\frac{1}{2}$	2.220
1853—Jan	9 $\frac{7}{8}$	.200	5 0	1.217	9 7 $\frac{1}{2}$	2.342
July	10 $\frac{1}{4}$	.203	5 0	1.217	9 6	2.312
1854—Jan	9 $\frac{1}{2}$	.193	4 9	1.156	9 3	2.251
July	9 $\frac{1}{4}$	.188	4 7 $\frac{1}{2}$	1.125	8 10 $\frac{1}{2}$	2.160
1855—Jan	8 $\frac{3}{4}$	.177	4 1 $\frac{1}{2}$	1.004	8 0	1.947
July	9 $\frac{3}{4}$	.198	4 6	1.095	8 6	2.068
1856—Jan	9 $\frac{1}{4}$	.188	4 4 $\frac{1}{2}$	1.065	8 4 $\frac{1}{2}$	2.037
July	10	.203	4 7 $\frac{1}{2}$	1.125	8 9	2.129
1857—Feb	11 $\frac{5}{8}$	.236	5 3	1.277	8 4 $\frac{1}{2}$	2.038
July	12 $\frac{1}{2}$	.250	5 4 $\frac{1}{2}$	1.308	9 10 $\frac{1}{2}$	2.403
1858—Jan	10 $\frac{1}{8}$	.205	4 7 $\frac{1}{2}$	1.125	8 7 $\frac{1}{2}$	2.099
1859—Jan	12 $\frac{1}{8}$	.246	5 4 $\frac{1}{2}$	1.308	9 7 $\frac{1}{2}$	2.342
1860—Jan	12 $\frac{1}{4}$	.248	6 1 $\frac{1}{2}$	1.490	10 7 $\frac{1}{2}$	2.585
July	11 $\frac{7}{8}$	.241	6 0	1.460	10 6	2.555
1861—Jan	12 $\frac{1}{4}$	.253	6 0	1.460	11 0	2.677
July	12	.243	5 7 $\frac{1}{2}$	1.369	9 7 $\frac{1}{2}$	2.342
1862—Jan	14 $\frac{1}{4}$	.299	6 4 $\frac{1}{2}$	1.551	11 0	2.677
July	17	.345	7 6	1.825	12 9	3.102
1863—Jan	30	.608	10 6	2.555	19 6	4.745
July	26	.527	9 9	2.372	18 9	4.562

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures—Concluded.*

Date.	Manchester markets.					
	45. Cotton yarn: mule No. 40, fair, second quality.		46. Cotton cloths: printers', 26-inch, 66 reed, 20 yards, 4 pounds, 2 ounces.		47. Cotton cloths: Gold-end shirtings, 40-inch, 66 reed, 37½ yards, 8 pounds, 12 ounces.	
	Per pound.	Per pound.	Each.	Each.	Each.	Each.
	d.		s. d.		s. d.	
1864—Jan.....	34	\$0. 690	14 0	\$3. 407	23 6	\$5. 718
July.....	34½	. 700	13 0	3. 163	24 6	5. 962
1865—Jan.....	31½	. 639	11 9	2. 859	22 3	5. 414
July.....	23	. 466	9 6	2. 312	17 3	4. 197
1866—Jan.....	30	. 608	11 6	2. 798	18 6	4. 502
July.....	21	. 426	8 0	1. 947	17 3	4. 197
1867—Jan.....	21	. 426	8 3	2. 007	15 9	3. 832
July.....	17½	. 350	6 9	1. 643	14 0	3. 047
1868—Jan.....	11½	. 233	5 0	1. 217	10 4½	2. 525
July.....	14½	. 299	5 10½	1. 430	12 3	2. 981
1869—Jan.....	14½	. 294	5 10½	1. 430	11 9	2. 859
July.....	16½	. 330	6 1½	1. 490	13 0	3. 163
1870—Jan.....	15	. 304	5 10½	1. 430	12 3	2. 981
July.....	14½	. 299	5 6	1. 338	11 10½	2. 890
1871—Jan.....	13½	. 274	5 3	1. 277	10 7½	2. 585
July.....	13½	. 279	5 1½	1. 247	10 7½	2. 585
1872—Jan.....	14½	. 294	5 7½	1. 369	11 3	2. 737
July.....	18	. 365	6 1½	1. 490	11 9	2. 859
1873—Jan.....	15	. 304	5 9	1. 399	11 3	2. 737
July.....	13½	. 279	5 6	1. 338	11 1½	2. 707
1874—Jan.....	13½	. 269	5 0	1. 217	10 7½	2. 585
July.....	12½	. 259	5 3	1. 277	10 10½	2. 646
1875—Jan.....	11½	. 241	5 1½	1. 247	10 6	2. 555
July.....	11½	. 238	5 1½	1. 247	10 6	2. 555
1876—Jan.....	12	. 243	5 0	1. 217	10 0	2. 433
July.....	11	. 223	4 3	1. 034	8 9	2. 129
1877—Jan.....	11½	. 233	5 4½	1. 308	9 10½	2. 403
July.....	9½	. 195	5 0	1. 217	9 6	2. 312
1878—Jan.....	10½	. 205	4 6	1. 095	9 1½	2. 220
July.....	9½	. 198	4 4½	1. 065	8 10½	2. 160
1879—Jan.....	8½	. 172	3 10½	. 943	8 0	1. 947
July.....	9½	. 193	3 10½	. 943	8 9	2. 129
1880—Jan.....	10½	. 218	4 0	. 973	8 9	2. 129
July.....	11½	. 228	3 3	. 791	8 9	2. 129
1881—Jan.....	10½	. 218	4 7½	1. 125	9 0	2. 190
July.....	10½	. 208	3 4	. 811	8 7½	2. 099
1882—Jan.....	10½	. 218	4 7½	1. 125	8 9	2. 129
July.....	10½	. 213	4 6	1. 095	9 3	2. 251
1883—Jan.....	9½	. 198	4 4	1. 054	7 10½	1. 916
July.....	9½	. 198	4 0	. 973	7 7½	1. 855
1884—Jan.....	9½	. 195	4 0	. 973	7 9	1. 886
July.....	9½	. 200	4 1½	1. 004	7 4½	1. 795
1885—Jan.....	9½	. 198	3 10½	. 943	7 4½	1. 795
July.....	9	. 183	3 10½	. 943	7 3	1. 764
1886—Jan.....	8½	. 165	4 1½	1. 004	7 6	1. 825
July.....	8½	. 165	4 1½	1. 004	7 1½	1. 734
1887—Jan.....	8½	. 170	4 1½	1. 004	7 4	1. 784
July.....	8½	. 174	4 0	. 973	7 6	1. 825
1888—Jan.....	8½	. 177	4 0	. 973	7 9	1. 886
July.....	8½	. 172	4 0	. 973	7 6	1. 825
1889—Jan.....	9½	. 185	4 1½	1. 004	7 9	1. 886
July.....	9	. 183	4 1½	1. 004	8 1½	1. 977
1890—Jan.....	9	. 183	4 1½	1. 004	8 1½	1. 977
July.....	9½	. 198	4 1½	1. 004	8 3	2. 007
1891—Jan.....	9½	. 193	4 0	. 973	8 1½	1. 977
July.....	8½	. 172	3 10½	. 943	7 9	1. 886
1892—Jan.....	8	. 162	3 9	. 913	7 9	1. 886
July.....	7½	. 155	3 6	. 852	7 4½	1. 795
1893—Jan.....	8½	. 167	3 10½	. 943	7 10½	1. 916

TABLE 57.—*Relative prices in England—The Economist index number.*

[1845 to 1850 = 100.]

Year.	1. Coffee: Jamaica, ordinary to fine ordinary.	2. Sugar: Britishplantation, brown and Bengal, good yellow and white.	3. Tea: Congon, middling common to fair good.	4. Tobacco: Virginia leaf.	5. Wheat: Gazette price.	6. Butchers' meat: beef, inferior, middling; beef, prime, large; mutton, middling and mutton, prime.	7. Silk: raw Cossimbuzar.	8. Flax and hemp: flax, St. Petersburg, 12-head, and hemp, St. Petersburg, clean, raw.	9. Wool, sheep's: English South-down, Port Philip lambs and fleece, and South Australian, lambs.	10. Indigo: Bengal.	11. Oils: seal, pale; olive, Levant, Gallipoli; and palm.	12. Timber: Dantzic and Memel, and Canadian yellow pine.
1845-1850.....	100	100	100	100	100	100	100	100	100	100	100	100
1851.....	114	97	124	156	71	86	113	94	.....	128	101	84
1852.....	93	73	86	111	72	95	104	101	.....	117	98	78
1853.....	109	73	114	106	87	102	119	112	.....	159	121	104
1854.....	115	75	154	117	151	120	126	101	.....	173	140	116
1855.....	109	63	111	139	137	112	109	147	.....	147	142	116
1856.....	119	93	109	139	144	113	117	133	.....	113	149	108
1857.....	128	108	141	189	110	119	178	111	.....	117	147	113
1858.....	114	103	140	200	90	112	156	113	.....	163	121	100
1859.....	128	100	119	155	75	113	139	113	.....	.....	118	91
1860.....	130	114	152	144	83	109	152	121	.....	.....	127	97
1861.....	134	93	151	133	101	121	117	129	.....	124	133	97
1862.....	153	82	126	189	116	120	139	130	.....	169	133	98
1863.....	161	74	126	322	86	107	149	139	.....	138	138	104
1864.....	148	103	129	322	75	115	139	140	.....	123	130	102
1865.....	161	65	108	322	72	123	157	132	.....	137	129	97
1866.....	179	72	141	222	89	129	200	140	.....	126	141	91
1867.....	149	66	108	200	113	121	183	116	.....	145	140	95
1868.....	141	73	104	200	127	112	161	121	.....	154	138	95
1869.....	127	72	135	167	96	117	183	124	.....	143	127	97
1870.....	134	83	102	167	80	123	174	116	96	151	126	99
1871.....	125	83	100	155	100	133	183	116	88	137	114	115
1872.....	145	83	100	189	104	134	169	115	.....	159	122	116
1873.....	171	74	100	195	104	144	169	118	157	169	118	127
1874.....	233	68	108	183	116	146	149	118	.....	123	110	125
1875.....	173	68	100	256	80	137	115	95	145	163	111	132
1876.....	183	67	100	256	84	153	87	105	133	130	116	128
1877.....	178	88	116	211	97	138	187	99	141	173	114	128
1878.....	183	60	111	189	98	135	143	92	122	169	110	132
1879.....	143	83	111	156	75	127	113	97	109	164	104	115
1880.....	151	70	141	180	88	119	135	101	117	205	106	105
1881.....	122	60	100	161	82	146	130	71	120	197	95	106
1882.....	100	67	89	222	84	125	139	75	108	195	94	110
1883.....	82	60	76	240	77	145	126	68	106	190	100	108
1884.....	106	54	92	200	73	123	117	76	98	151	110	100
1885.....	85	37	78	228	60	122	89	78	92	157	93	102
1886.....	85	50	93	216	57	106	93	76	90	153	86	92
1887.....	132	38	73	200	66	112	130	79	116	131	76	86
1888.....	166	49	64	244	58	108	117	66	111	129	74	80
1889.....	172	50	70	227	57	100	110	62	107	125	82	111
1890.....	186	42	62	222	56	123	114	64	120	120	82	115
1891.....	173	36	70	244	61	126	130	65	102	137	86	110
1892.....	185	42	60	244	70	131	113	55	98	114	83	110
1893.....	179	39	68	244	48	119	120	62	94	121	76	100

TABLE 57.—*Relative prices in England—The Economist index number—Concluded.*

[1845 to 1850=100.]

Year.	13. Tallow: St. Petersburg, first Y. C.	14. Leather: English butts, 25-36.	15. Copper: tough cake.	16. Iron: British bars and Swedish bars.	17. Lead: English pig.	18. Tin: English bars.	19. Cotton, raw: upland, middling; upland, middling, fair; Surat Dholerah, fair; and Pernambuco, fair.	20. Cotton yarn: mule No. 40, fair, second quality.	21. Cotton, cloths: printers, 26-inch, 66 reed, 20 yards, and Gold-end shirtings, 40-inch, 66 reed, 37½ yards.	22. Cotton, raw: Pernambuco, fair.	Total of all articles.	Average for all articles.
1845-1850.....	100	100	100	100	100	100	100	100	100	100	2,200	100
1851.....	86	100	95	90	100	98	86	127	118	106	2,293	104
1852.....	84	97	101	88	97	105	.....	92	97	74	1,863	93
1853.....	98	92	116	106	137	120	.....	101	109	82	2,167	108
1854.....	136	97	143	111	134	147	.....	97	104	88	2,445	122
1855.....	147	103	143	107	131	137	.....	90	90	77	2,357	118
1856.....	155	117	143	133	149	149	.....	95	95	81	2,459	123
1857.....	141	153	153	123	131	167	.....	119	101	97	2,645	133
1858.....	118	130	121	110	131	115	73	112	99	86	2,612	119
1859.....	116	116	121	100	125	145	97	124	112	97	2,304	115
1860.....	131	136	127	90	125	151	85	125	124	103	2,426	121
1861.....	136	130	116	115	123	160	86	128	111	109	2,727	124
1862.....	116	133	121	77	115	141	140	151	112	157	2,878	131
1863.....	101	133	110	90	122	130	314	298	222	284	3,492	159
1864.....	93	133	122	105	114	130	460	349	277	329	3,787	172
1865.....	93	131	101	95	115	115	363	323	252	325	3,575	163
1866.....	112	131	122	100	123	122	383	308	222	267	3,564	162
1867.....	106	128	98	88	114	99	227	215	178	191	3,024	137
1868.....	98	136	86	86	111	112	100	118	114	181	2,682	122
1869.....	111	136	89	85	109	129	155	149	131	189	2,666	121
1870.....	105	128	83	88	109	138	173	154	135	144	2,689	122
1871.....	102	128	81	87	103	160	118	138	118	106	2,590	118
1872.....	111	133	103	99	109	177	141	149	125	119	2,835	129
1873.....	98	144	105	141	124	171	132	154	126	126	2,947	134
1874.....	93	147	104	167	139	143	120	136	116	106	2,891	131
1875.....	108	153	105	138	137	118	111	122	117	95	2,778	126
1876.....	120	147	100	125	131	99	107	123	111	106	2,711	123
1877.....	102	144	93	104	126	95	94	108	113	82	2,715	123
1878.....	89	150	81	91	109	85	93	104	101	82	2,529	115
1879.....	83	146	72	77	84	77	73	88	81	71	2,225	101
1880.....	102	144	81	92	112	109	110	110	95	88	2,538	115
1881.....	89	144	75	79	87	110	105	110	101	86	2,376	108
1882.....	103	139	86	86	88	134	102	110	99	82	2,435	111
1883.....	111	139	80	78	83	114	89	100	92	78	2,342	106
1884.....	113	139	71	69	70	104	92	99	88	74	2,221	101
1885.....	87	144	60	75	65	90	93	100	80	75	2,098	95
1886.....	70	142	50	66	72	113	80	83	85	65	2,023	92
1887.....	60	136	48	62	74	120	82	86	84	68	2,059	94
1888.....	73	133	91	67	90	173	90	90	87	70	2,230	101
1889.....	87	130	89	70	76	118	91	93	88	72	2,187	99
1890.....	75	130	64	109	82	120	92	92	91	75	2,236	102
1891.....	80	130	66	87	76	111	82	97	89	70	2,240	102
1892.....	105	130	55	78	66	106	73	82	84	59	2,133	97
1893.....	107	128	58	78	58	112	83	85	85	64	2,120	96

In the foregoing table we may observe a certain similarity in tendencies with those which were found in the United States. Attention is particularly called at this point to the fall of prices in 1892 and 1893 as compared with 1891. A similar fall in the United States was revealed by the supplementary tables which have just been discussed. On the other hand it needs but a glance at the foregoing table to show the wide divergence between the methods here employed and those followed in this report. We have here a simple average of 22 articles, while the list used for the United States contained 223. If the number of articles

be small there is greater probability of its including only objects of very general use and of approximately equal importance. At the same time the influence of each article in moulding the result is infinitely greater. Hence the choice of articles must be made with the utmost caution. In the foregoing list the inclusion of indigo and the omission of coal have been frequently criticised.

In the United States we had a list of 223 articles, but recognizing the danger of a false result by a simple average through the presence of many articles of minor importance, an effort was made to ascertain the importance of the various articles and to assign to them a proportionate weight in the result. As a measure of this importance, we took their consumption in average families. We found that the prices of the articles upon our list affected 68.60 per cent of the total expenditure of families. In 1891 the relative price of all articles compared with 1860 stood at 94.4 by this method, while by the simple average plan it was 92.2. To compare these results with those of the Economist it is necessary to reduce the latter to the basis of 1860. In so doing we have been obliged to omit the much-discussed item of indigo, since the prices for that article are given quite spasmodically, and none are quoted for 1860, or even thereabouts. In making this table we have held strictly to the price figures. Furthermore, when the relative price represents several articles it consists in one table of the average of the relative prices of the various items. With these necessary explanations we present the following table:

TABLE 58.—*Relative prices in England compared with 1860.*

[1860=100.]

Year.	Coffee.	Sugar.	Tea.	Tobacco.	Wheat.	Butchers' meat.	Silk.	Flax and hemp.	Wool, sheeps.	Indigo.	Oils.	Timber.
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0
1861.....	103.1	99.9	93.3	88.9	121.3	111.8	77.1	110.7	110.7	.....	109.6	102.9
1862.....	116.3	88.8	78.3	125.9	142.8	111.7	91.4	112.5	92.4	.....	107.5	101.0
1863.....	121.7	83.8	78.3	214.8	103.8	98.9	95.7	118.8	96.7	.....	114.4	106.0
1864.....	115.5	108.2	76.7	214.8	90.2	106.3	91.4	119.8	100.3	.....	107.1	104.6
1865.....	122.5	83.5	66.7	.....	85.7	112.0	102.9	108.5	104.7	.....	107.0	99.5
1866.....	120.2	93.2	86.7	125.9	104.7	116.9	131.4	118.2	94.9	.....	115.9	93.9
1867.....	113.2	84.0	66.7	133.3	136.2	111.6	120.0	102.3	95.8	.....	113.9	97.3
1868.....	107.0	95.4	110.0	133.3	152.5	103.0	105.7	109.9	80.8	.....	109.9	95.5
1869.....	96.1	93.2	123.3	111.1	115.3	107.2	120.0	114.4	76.8	.....	100.6	99.0
1870.....	101.6	107.2	128.3	111.1	98.9	112.5	114.3	103.7	71.0	.....	102.8	100.7
1871.....	95.3	106.9	123.3	103.7	119.1	123.2	120.0	103.7	65.6	.....	91.7	116.8
1872.....	110.1	108.5	120.0	125.9	125.3	125.2	114.3	101.9	93.7	.....	97.9	118.4
1873.....	130.2	97.1	120.0	129.6	127.5	131.7	111.4	106.4	105.8	.....	96.7	129.4
1874.....	176.7	88.6	73.3	122.2	139.6	132.4	97.1	105.0	98.8	.....	88.8	127.6
1875.....	131.8	88.8	73.3	170.4	100.0	126.4	75.7	89.9	102.2	.....	91.5	133.9
1876.....	139.5	79.2	71.7	170.4	102.5	139.9	57.1	96.6	92.3	.....	94.9	130.2
1877.....	134.9	115.9	73.3	140.7	115.8	125.8	122.9	95.7	96.7	.....	91.7	130.8
1878.....	138.8	65.1	70.0	125.9	117.0	123.5	94.3	112.5	84.8	.....	95.9	134.3
1879.....	109.3	71.6	68.3	103.7	89.6	116.0	74.3	82.0	75.9	.....	82.1	116.8
1880.....	114.7	83.7	86.7	118.5	106.2	109.1	88.6	85.2	85.7	.....	83.6	109.5
1881.....	93.0	74.2	61.7	107.4	98.1	133.8	85.7	64.7	86.3	.....	76.3	111.3
1882.....	76.0	79.8	55.0	155.6	100.2	110.7	92.1	70.0	82.3	.....	75.3	113.2
1883.....	61.2	70.6	46.7	163.0	92.6	133.7	82.9	63.1	78.0	.....	84.4	109.7
1884.....	80.6	68.0	56.7	140.7	88.3	120.7	77.1	73.5	74.9	.....	88.1	102.8
1885.....	71.3	44.8	48.3	151.9	72.3	112.9	58.6	75.8	71.8	.....	74.5	104.2
1886.....	65.1	60.4	57.5	137.0	68.5	94.8	61.4	73.4	70.5	.....	68.9	93.6
1887.....	100.8	45.8	45.0	133.3	79.2	100.3	85.7	75.1	87.2	.....	61.1	88.5
1888.....	126.4	59.4	40.0	163.0	69.6	97.9	77.1	41.5	76.4	.....	59.5	88.5
1889.....	131.0	60.4	43.3	148.1	68.7	101.2	72.1	42.3	71.5	.....	65.6	112.8
1890.....	141.1	43.4	38.3	148.1	67.5	109.9	75.0	64.2	82.7	.....	66.0	111.6
1891.....	131.0	45.8	43.3	163.0	73.8	115.4	85.7	35.4	79.8	.....	69.7	105.8
1892.....	140.7	52.3	37.5	163.0	83.4	119.3	74.3	50.6	74.9	.....	62.2	104.0
1893.....	135.7	49.3	41.7	155.6	58.1	108.5	78.6	58.8	74.1	.....	60.9	91.7

TABLE 58.—*Relative prices in England compared with 1860—Concluded.*

[1860=100.]

Year.	Tallow.	Leather.	Copper.	Iron.	Lead.	Tin.	Cotton.	Cotton yarn.	Cotton cloths.	Cotton, Per-nambuco.	Average of all articles.
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	103.0	94.0	91.5	102.1	98.3	98.6	116.3	102.0	100.8	105.9	102.0
1862	88.4	96.0	96.0	98.2	92.0	87.1	184.7	120.4	103.8	152.9	109.0
1863	76.7	96.0	86.6	102.1	98.9	83.5	378.3	244.9	177.5	276.5	135.9
1864	70.7	96.0	96.4	118.4	95.5	81.3	415.4	277.6	224.9	329.4	144.8
1865	70.7	94.0	79.5	112.1	90.9	71.2	422.7	257.1	200.7	317.6	135.5
1866	84.5	94.0	94.6	111.7	97.7	74.8	348.6	244.9	181.0	258.8	133.0
1867	76.7	92.0	76.8	98.4	90.9	61.2	252.3	171.4	141.5	185.3	115.3
1868	74.1	98.0	67.9	94.6	88.6	69.1	118.8	93.9	89.6	86.8	99.3
1869	84.5	98.0	69.6	93.5	86.4	79.9	178.5	118.4	103.3	135.3	105.0
1870	79.3	92.0	65.2	99.3	86.4	84.9	187.9	122.4	105.6	139.7	105.5
1871	77.6	92.0	63.4	97.4	81.8	97.1	132.9	110.2	92.9	102.9	100.8
1872	84.5	96.0	80.4	113.0	86.4	110.1	140.8	118.4	98.9	116.2	108.8
1873	74.1	104.0	82.6	155.0	117.0	105.0	138.4	122.4	99.9	122.1	114.6
1874	70.7	106.2	82.1	183.4	110.8	87.8	122.1	108.2	90.8	102.9	110.2
1875	81.9	110.0	82.1	149.3	109.1	72.7	111.7	96.9	91.3	92.6	103.9
1876	91.4	106.0	78.6	132.4	104.0	61.2	114.1	98.0	87.9	102.9	102.4
1877	77.6	104.0	72.8	112.4	100.0	58.3	97.4	93.9	90.4	80.1	101.5
1878	68.1	108.0	63.4	98.1	86.9	52.2	95.7	82.7	79.7	79.4	94.1
1879	62.9	104.0	56.7	83.8	66.5	47.1	77.2	69.4	69.3	69.1	80.7
1880	77.6	104.0	63.6	101.6	89.2	67.6	114.5	87.8	73.9	85.3	92.2
1881	67.7	104.0	59.2	86.7	69.3	67.6	109.5	87.8	80.1	83.1	86.1
1882	78.4	100.0	67.4	96.5	69.9	82.4	104.0	87.8	79.0	80.1	88.4
1883	84.5	100.0	62.9	88.6	65.9	70.5	90.6	79.6	72.5	75.0	84.6
1884	88.8	100.0	55.6	84.6	55.7	63.7	92.9	78.6	69.1	72.1	82.5
1885	71.6	104.0	47.3	92.3	51.1	55.6	94.8	79.6	66.4	73.5	77.3
1886	60.3	100.0	39.3	80.8	57.4	69.8	82.0	66.3	69.0	63.2	73.3
1887	53.4	98.0	38.2	76.9	58.8	74.6	80.3	68.4	68.2	62.6	75.3
1888	55.2	96.0	71.9	82.7	71.9	106.5	87.2	71.4	69.1	68.4	80.0
1889	66.4	94.0	70.3	86.5	66.2	73.0	89.9	74.5	70.1	70.6	79.6
1890	66.4	94.0	50.2	112.4	65.1	74.1	93.5	73.5	71.9	80.1	82.3
1891	67.2	94.0	52.2	98.9	60.8	.....	81.5	77.6	70.9	67.6	81.0
1892	74.1	94.0	43.1	87.1	52.3	64.9	70.5	65.3	67.1	57.4	78.0
1893	77.6	92.0	45.5	86.0	46.0	69.1	82.6	67.3	68.7	62.6	76.7

It will be observed that the average price for 1891 is 81, much below that for the United States, which, by the same method of simple average, was 92.2. Such a difference may be due to a difference in the methods or a difference in the prices. The prices of different groups may vary, or with approximately the same prices a varied grouping may bring about a divergent result. In order to test this as nearly as may be, the English prices may be classified in the same way as the American, and their influence in the total as well as their group prices may be noted. This is carried out in the following table:

TABLE 59.—*Comparison of Economist average with simple average of the United States.*

Group.	United States.			England.		
	Number.	Relative influence.	Group price.	Number.	Relative influence.	Group price.
Food.....	53	23.77	103.9	5	23.81	81.9
Cloths and clothing.....	28	12.57	81.1	8	38.09	74.1
Fuel and lighting.....	10	4.47	91.0	.....	.....	.....
Metals and implements.....	54	24.22	74.9	4	19.05	70.6
Lumber and building materials.....	35	15.70	122.3	1	4.76	105.8
Drugs and chemicals.....	18	8.07	86.3	.....	.....	.....
House furnishing goods.....	15	6.73	70.1	.....	.....	.....
Miscellaneous.....	10	4.47	95.1	3	14.29	100.0
Total.....	223	100.00	92.2	21	100.00	81.0

Let us now consider the above figures group by group. Food has in each average approximately the same importance, but the price in the United States is much above the average, and in England nearly identical with the average. This of itself would place the result higher for the United States. Cloths and clothing have in England a greater influence in the average at a less price, both groups being below the general average. Fuel and lighting is not represented on the English list. In both lists lumber and building materials are higher than the average, but the highest price is in the United States, where the group forms 15.70 of the total as against 4.76 per cent in England. The above considerations are somewhat offset, but by no means outweighed, by the fact that drugs and chemicals and house furnishing goods not represented in England depress the United States average, while miscellaneous articles tend to elevate the average of England more than the United States.

It is clear, then, that there are differences in price as well as method. The most noticeable is in the group food. This is due largely to the composition of the group, as the high-priced meats and fish occupy a larger place in the American group than in the English. As to cloths and clothing, the English figures include mostly textile materials rather than finished products. The difference in metals and implements is inconsiderable.

These differences in price are only accentuated when the articles are given their importance in consumption. This is shown in the following table:

TABLE 60.—*Comparison of Economist average with weighted average of the United States.*

Group.	Proportion of Economist total.	Proportion of 68.60 per cent of total expenditure
Meat.....	4.47	17.5
Other food.....	19.34	42.2
Total food.....	23.81	59.7
Clothing.....	38.09	22.3
Fuel.....	.....	7.3
All other.....	38.10	10.7
Total.....	100.00	100.0

It certainly is not surprising that a combination of prices based on the latter proportions gives a different result from that which is founded upon the former, especially when it is remembered that in the second series where it predominates food is high priced, while it is scarcely above the average in the first. The working together of differences of price and varied groupings is clearly shown in the divergence between 81.0, the English figure, and 94.4, the American result.

To measure the extent to which differences in prices bring about discrepancies in the results we must compare the United States and England upon exactly the same basis. If from the various tables of our report we collect the prices of the twenty-two articles which are contained in the English list, we find that the simple average of their relative prices gives us 83.4, or a figure only slightly in excess of the English result. This practical accord shows us that by Economist methods the prices in both England and the United States stand at about the same point with relation to 1860.

We can not escape the criticism that if Economist methods of ascertaining the general level of prices be correct our own method falls short

of portraying the true state of affairs, since the relative price of 1891 is 83.4 instead of 94.4. There is plainly a difference of principle. The Economist takes into account only the great wholesale markets and considers every article as equally worthy of consideration in making what might be termed a composite photograph of the market. On the other hand, our investigation takes as its starting point the consumption of families. It includes, therefore, tenfold the variety of articles, and so nearly as possible in the form in which they are purchased by the consumer, and assigns, further, to each article the importance it occupies in the family budget.

It seems only necessary to state the principles which we have adopted in order to secure for them general approval. On the other hand, the value of such calculations as those of the Economist is not to be underrated. Rarely can such a rich and varied material be brought together as forms the subject of this report, and where it is lacking the somewhat summary methods of the Economist have their function. With this in view we shall at a later stage of the report make a comparison of prices in several countries based upon the Economist method.

The Economist figures have formed the object of a great variety of studies by English economists. They have not, however, passed without criticism. The facts that each article is given an equal weight and that the number of articles is very restricted have both led to attempts at improvement. The latter evil could only be remedied by enlarging the scope of the figures, while a new method of combination might mitigate the former.

CALCULATIONS OF MR. PALGRAVE.

A very noteworthy attempt to correct the Economist figures was made by Mr. R. H. Inglis Palgrave in a memorandum submitted by him to the Royal Commission on the Depression of Trade and Industry. He there again calls attention to the absurdity of classing indigo as equal to either sugar or meat. His method, already noted in this report, is to give each relative price an importance proportioned to its consumption. He obtains the national annual consumption of each product from its production and imports less the exports. In this way he obtains a series of figures representing the importance in each year of the commerce of each commodity. Using these in connection with the Economist figures, he obtained the following results for the years 1865 to 1885, upon the basis of 1865 to 1869 as 100. (*a*)

a For the method of calculation reference is made to Table 21 of this report.

TABLE 61.—*Comparison of simple and weighted averages of Economist prices.*

Year.	Total relative prices of Economist without regard to relative importance of commodities.		Total relative prices of Economist grouped according to relative importance of commodities.	
1865.....	2,434	110.6	2,366	107.5
1866.....	2,449	111.3	2,434	110.6
1867.....	2,156	98.0	2,179	99.0
1868.....	1,982	90.1	2,058	93.5
1869.....	1,979	90.0	1,963	89.2
Average.....	2,200	100	2,200	100
1870.....	1,995	91	1,975	90
1871.....	1,981	90	2,046	93
1872.....	2,132	97	2,197	100
1873.....	2,237	102	2,298	104
1874.....	2,207	100	2,378	108
1875.....	2,098	95	2,125	97
1876.....	2,044	93	2,186	99
1877.....	2,064	94	2,205	100
1878.....	1,910	87	2,081	95
1879.....	1,676	76	1,805	82
1880.....	1,918	87	1,967	89
1881.....	1,782	81	2,054	93
1882.....	1,830	83	1,908	87
1883.....	1,755	80	1,924	88
1884.....	1,660	75	1,750	80
1885.....	1,550	70	1,669	76

An effort to continue the above table to the present day has been unsuccessful. The determination of the annual consumption by the methods followed is a matter of considerable difficulty. Application has been made to Mr. Palgrave for any continuation of the tables which he might have prepared, but he informs us that he has never published any supplement to the figures quoted, nor prepared the calculations.

An examination of the table shows a substantial agreement of the two columns as regards direction. Nor is the difference of level very great. It is, however, to be noted that the weighted average stands generally some points higher than the simple average. The same observation holds good for the calculations which we have made for the United States, both in the present report and in that upon retail prices and wages.

While the Economist figures have been widely used, their defects have been recognized as well as their merits. The desire for a broader basis of calculation than the 22 articles above noted led to the preparation of the index numbers of Mr. Sauerbeck with which we must now deal.

PRICES COLLECTED BY MR. SAUERBECK.

This important series of price quotations has been prepared by Mr. Augustus Sauerbeck, a wool broker, of the firm of Schwarze & Co., London. He has published them from time to time in the Journal of the Statistical Society. The first publication occurred in 1886, and the work has been brought down to date in subsequent issues of the Journal.

Mr. Sauerbeck bases his figures on quotations collected under his personal supervision either from the most trustworthy trade journals or from direct reports of leading firms. His own firm, for example, furnishes figures for wool, while Ellison & Co., of Manchester, furnish cotton quotations. The earlier prices are obtained from trade journals, but during the past ten years they have been carefully collected by Mr. Sauerbeck in the manner described. The yearly prices are the averages of twelve monthly or fifty-two weekly quotations. The prices of Mr. Sauer-

beck embrace some 45 articles, and are given in Table 62. Mr. Sauerbeck has made the figures which he has collected the basis of relative price calculations. His index number, based upon 45 different articles, and taking the period 1867-77 as 100, is given in Table 63 following the prices.

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures.*

Year.	1. Wheat, English Gazette.		2. Wheat, American.		3. Flour, town made, white.		4. Barley, English Gazette.		5. Oats, English Gazette.		6. Maize, American mixed.	
	Per 8 bushels.	Per bushel.	Per 8 bushels.	Per bushel.	Per 280 pounds.	Per pound.	Per 8 bushels.	Per bushel.	Per 8 bushels.	Per bushel.	Per 8 bushels.	Per bushel.
	s. d.		s. d.		s. d.		s. d.		s. d.		s. d.	
1846.....	54 8	\$1.612			51	\$0.044	32 8	\$0.963	23 8	\$0.698	39 0	\$1.150
1847.....	69 9	2.057			58	.050	44 2	1.302	28 8	.845	45 0	1.327
1848.....	50 6	1.489			46	.040	31 6	.929	20 6	.604	32 0	.944
1849.....	44 3	1.305			41	.036	27 9	.818	17 6	.516	28 0	.826
1850.....	40 3	1.187			37	.032	23 5	.690	16 5	.484	28 0	.826
1851.....	38 6	1.135			36	.031	24 9	.730	18 7	.548	28 0	.826
1852.....	40 10	1.204			39	.034	28 6	.840	19 1	.563	29 0	.855
1853.....	53 3	1.570			52	.045	33 2	.978	21 0	.619	35 0	1.032
1854.....	72 5	2.135			65	.056	36 0	1.062	27 11	.823	43 0	1.268
1855.....	74 8	2.202			68	.059	34 9	1.025	27 5	.808	43 0	1.268
1856.....	69 2	2.039			62	.054	41 1	1.211	25 2	.742	35 0	1.032
1857.....	56 4	1.661			51	.044	42 1	1.241	25 0	.737	37 0	1.091
1858.....	44 2	1.302			40	.035	34 8	1.022	24 6	.722	33 0	.973
1859.....	43 9	1.290			41	.036	33 6	.988	23 2	.683	31 0	.914
1860.....	53 3	1.570			48	.042	36 7	1.079	24 5	.720	35 0	1.032
1861.....	55 4	1.632			52	.045	36 1	1.064	23 9	.700	37 0	1.091
1862.....	55 5	1.634			47	.041	35 1	1.034	22 7	.666	31 0	.914
1863.....	44 9	1.320			41	.036	33 11	1.000	21 2	.624	29 0	.855
1864.....	40 2	1.184			38	.033	29 11	.882	20 1	.592	29 0	.855
1865.....	41 10	1.234			39	.034	29 9	.877	21 10	.644	30 0	.885
1866.....	49 11	1.472			45	.039	37 5	1.103	24 7	.725	32 0	.944
1867.....	64 5	1.899			57	.050	40 0	1.179	26 0	.767	41 0	1.209
1868.....	63 9	1.880			54	.047	43 0	1.268	28 1	.828	39 0	1.150
1869.....	48 2	1.420			40	.035	39 5	1.162	26 0	.767	31 0	.914
1870.....	46 10	1.381			41	.036	34 7	1.020	22 11	.676	30 0	.885
1871.....	56 8	1.671	56 0	\$1.651	44	.038	36 2	1.066	25 2	.742	33 0	.973
1872.....	57 0	1.681	59 0	1.740	46	.040	37 5	1.103	23 2	.683	29 0	.855
1873.....	58 8	1.730	63 0	1.858	51	.044	40 5	1.192	25 5	.749	30 0	.885
1874.....	55 8	1.641	57 0	1.681	47	.041	44 11	1.324	28 10	.850	38 0	1.120
1875.....	45 2	1.332	48 0	1.415	40	.035	38 5	1.133	28 8	.845	34 0	1.003
1876.....	46 2	1.361	48 0	1.415	41	.036	35 2	1.037	26 3	.774	26 9	.789
1877.....	56 9	1.673	55 0	1.622	45	.039	39 8	1.170	25 11	.764	27 3	.804
1878.....	46 5	1.369	48 0	1.415	38	.033	40 2	1.184	24 4	.717	25 0	.737
1879.....	43 10	1.292	48 0	1.415	36	.031	34 0	1.003	21 9	.641	23 9	.700
1880.....	44 4	1.307	51 0	1.504	39	.034	33 1	.976	23 1	.681	25 9	.759
1881.....	45 4	1.387	52 0	1.533	40	.035	31 11	.941	21 9	.641	27 9	.818
1882.....	45 1	1.329	48 6	1.430	40	.035	31 2	.919	21 10	.644	31 0	.914
1883.....	41 7	1.226	45 0	1.327	36	.031	31 10	.939	21 5	.631	27 9	.818
1884.....	35 8	1.052	36 6	1.076	31	.027	30 8	.904	20 3	.597	25 3	.745
1885.....	32 10	.968	35 0	1.032	29	.025	30 1	.887	20 7	.607	23 0	.678
1886.....	31 0	.914	35 0	1.032	28	.024	26 7	.784	19 0	.560	21 0	.619
1887.....	32 6	.958	34 0	1.003	28	.024	25 4	.747	16 3	.479	21 3	.627
1888.....	31 10	.939	37 0	1.091	30	.026	27 10	.821	16 9	.494	23 6	.693
1889.....	29 9	.877	35 0	1.032	29	.025	25 10	.762	17 9	.523	20 0	.590
1890.....	31 11	.941	35 6	1.047	29	.025	28 8	.845	18 7	.548	20 0	.590
1891.....	37 0	1.091	40 0	1.179	33	.029	28 2	.831	20 0	.590	28 0	.826

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	7. Potatoes, good English.		8. Rice, Ran- goon, cargoes to arrive.		9. Beef, prime.		10. Beef, mid- dling.		11. Mutton, prime.	
	Per 2,240 pounds.	Per bushel.	Per 112 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.
	s.		s. d.		d.		d.		d.	
1846.....	125	\$0.815	13 6	\$0.029	40	\$0.101	34	\$0.086	53	\$0.134
1847.....	160	1.043	15 6	.034	45	.114	40	.101	55	.139
1848.....	120	.782	8 9	.019	41	.104	37	.094	53	.134
1849.....	95	.619	7 9	.017	38	.096	32	.081	44	.112
1850.....	85	.554	8 6	.018	36	.091	30	.076	43	.109
1851.....	70	.456	8 0	.017	37	.094	30	.076	44	.112
1852.....	90	.587	9 0	.020	37	.094	31	.079	44	.112
1853.....	135	.880	10 9	.023	45	.114	39	.099	54	.137
1854.....	120	.782	12 3	.027	50	.127	43	.109	54	.137
1855.....	95	.619	13 0	.028	50	.127	44	.112	53	.134
1856.....	85	.554	10 0	.022	48	.122	41	.104	53	.134
1857.....	115	.750	10 3	.022	48	.122	42	.106	54	.137
1858.....	100	.652	7 6	.016	47	.119	41	.104	51	.129
1859.....	90	.587	8 6	.018	48	.122	41	.104	53	.134
1860.....	110	.717	10 3	.022	50	.127	42	.106	56	.142
1861.....	115	.750	10 6	.023	49	.124	42	.106	55	.139
1862.....	120	.782	10 6	.023	46	.117	39	.099	53	.134
1863.....	90	.587	11 0	.024	47	.119	41	.104	54	.137
1864.....	75	.489	9 6	.021	50	.127	44	.112	55	.139
1865.....	85	.554	10 9	.023	53	.134	46	.117	64	.162
1866.....	85	.554	12 0	.026	53	.134	47	.119	61	.155
1867.....	130	.847	11 9	.026	52	.132	45	.114	55	.139
1868.....	125	.815	11 0	.024	50	.127	43	.109	51	.129
1869.....	85	.554	9 6	.021	55	.139	46	.117	58	.147
1870.....	90	.587	9 6	.021	56	.142	48	.122	58	.147
1871.....	80	.521	9 10	.021	60	.152	53	.134	63	.160
1872.....	140	.912	10 0	.022	59	.150	52	.132	67	.170
1873.....	160	1.043	9 6	.021	65	.165	56	.142	71	.180
1874.....	105	.684	10 0	.022	62	.157	51	.129	62	.157
1875.....	105	.684	8 3	.018	64	.162	55	.139	71	.180
1876.....	135	.880	9 0	.020	62	.157	52	.132	72	.183
1877.....	130	.847	10 0	.022	61	.155	49	.124	69	.175
1878.....	155	1.010	10 0	.022	61	.155	49	.124	68	.172
1879.....	130	.847	9 7	.021	55	.139	45	.114	64	.162
1880.....	130	.847	9 1	.020	58	.147	49	.124	66	.167
1881.....	85	.554	8 4	.018	56	.142	48	.122	69	.175
1882.....	95	.619	7 5	.016	60	.152	51	.129	72	.183
1883.....	105	.684	8 1	.018	61	.155	51	.129	73	.185
1884.....	75	.489	7 8	.017	58	.147	49	.124	64	.162
1885.....	75	.489	7 0	.015	52	.132	44	.112	56	.142
1886.....	80	.521	6 7	.014	49	.124	40	.101	62	.157
1887.....	85	.554	6 10	.015	43	.109	36	.091	52	.132
1888.....	80	.521	7 1	.015	48	.122	39	.099	58	.147
1889.....	80	.521	7 3	.016	47	.119	39	.099	63	.160
1890.....	70	.456	7 3	.016	47	.119	38	.096	59	.150
1891.....	92	.600	7 11	.017	47	.119	40	.101	53	.134

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	12. Mutton, middling.		13. Pork, large and small, av- erage.		14. Bacon, Waterford.		15. Butter, Friesland, fine to finest.		16. Sugar, Brit- ish West In- dian, refining.	
	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.
	d.		d.		s.		s.		s. d.	
1846.....	48	\$0.122	52	\$0.132	57	\$0.124	102	\$0.222	33 0	\$0.072
1847.....	50	.127	54	.137	72	.156	101	.219	27 0	.059
1848.....	47	.119	52	.132	68	.148	98	.213	20 0	.043
1849.....	38	.096	43	.109	58	.126	88	.191	22 0	.048
1850.....	37	.094	41	.104	49	.106	82	.178	23 0	.050
1851.....	38	.096	40	.101	51	.111	87	.189	23 0	.050
1852.....	38	.096	38	.096	54	.117	88	.191	20 0	.043
1853.....	47	.119	45	.114	63	.137	100	.217	22 0	.048
1854.....	47	.119	49	.124	67	.146	103	.224	20 0	.043
1855.....	46	.117	48	.122	68	.148	106	.230	24 0	.052
1856.....	46	.117	50	.127	71	.154	115	.250	28 0	.061
1857.....	46	.117	52	.132	70	.152	116	.252	34 0	.074
1858.....	44	.112	48	.112	59	.128	117	.254	24 0	.052
1859.....	47	.119	49	.119	59	.128	115	.250	23 0	.050
1860.....	50	.127	54	.137	68	.148	113	.245	24 0	.052
1861.....	50	.127	54	.137	70	.152	113	.245	22 0	.048
1862.....	48	.122	52	.132	65	.141	113	.245	20 0	.043
1863.....	48	.122	44	.122	63	.137	107	.232	21 0	.046
1864.....	51	.129	49	.124	65	.141	109	.237	26 0	.056
1865.....	58	.147	55	.139	69	.150	116	.252	22 0	.048
1866.....	55	.139	54	.137	73	.159	112	.243	21 0	.046
1867.....	50	.127	45	.114	62	.135	116	.252	22 0	.048
1868.....	47	.119	45	.114	66	.143	126	.274	22 0	.048
1869.....	51	.129	55	.139	76	.165	115	.250	24 0	.052
1870.....	52	.132	56	.142	74	.161	124	.269	23 0	.050
1871.....	59	.150	51	.129	63	.137	130	.282	25 6	.055
1872.....	61	.155	50	.127	72	.156	119	.259	25 6	.055
1873.....	63	.160	54	.137	81	.176	123	.267	22 6	.049
1874.....	53	.134	54	.137	80	.174	134	.291	21 6	.047
1875.....	59	.150	57	.144	80	.174	126	.274	20 0	.043
1876.....	58	.147	59	.150	81	.176	135	.293	21 6	.047
1877.....	54	.137	51	.129	75	.163	127	.276	24 6	.053
1878.....	55	.139	50	.127	74	.161	122	.265	20 0	.043
1879.....	52	.132	48	.122	72	.156	107	.232	19 0	.041
1880.....	54	.137	55	.139	76	.165	125	.272	20 6	.045
1881.....	57	.144	54	.137	76	.165	123	.267	21 3	.046
1882.....	60	.152	51	.129	74	.161	125	.272	20 0	.043
1883.....	61	.155	49	.124	72	.156	123	.267	19 0	.041
1884.....	53	.134	48	.122	70	.152	120	.261	13 3	.029
1885.....	47	.119	45	.114	68	.148	111	.241	13 6	.029
1886.....	50	.127	45	.114	67	.146	100	.217	11 9	.026
1887.....	42	.106	43	.109	61	.133	103	.224	11 9	.026
1888.....	47	.119	40	.101	61	.133	100	.217	13 0	.028
1889.....	50	.127	43	.109	66	.143	102	.222	16 0	.035
1890.....	45	.114	42	.106	62	.135	100	.217	13 0	.028
1891.....	42	.106	39	.099	63	.137	106	.230	13 6	.029

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	17. Sugar, beet, German (or French), 88 per cent f. o. b.		18. Sugar, Java, floating cargoes.		19. Coffee, Cey- lon, plantation, low middling.		20. Coffee, Rio, good channel.		21. Tea, Congou, common.	
	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per pound.	Per pound.
	s. d.		s. d.		s.		s.		d.	
1846.....			33 0	\$0.072	52	\$0.113	32	\$0.070	9½	\$0.188
1847.....			28 0	.061	49	.106	33	.072	9	.183
1848.....			21 0	.046	40	.087	29	.063	7¾	.157
1849.....			24 0	.052	47	.102	36	.078	8½	.172
1850.....			25 0	.054	56	.122	48	.104	11	.223
1851.....			26 0	.056	50	.109	39	.085	10½	.213
1852.....			23 0	.050	51	.111	41	.089	8½	.167
1853.....			26 0	.056	56	.122	46	.100	11½	.228
1854.....			25 0	.054	55	.119	50	.109	11½	.228
1855.....			29 0	.063	56	.122	44	.096	9	.183
1856.....			33 0	.072	58	.126	46	.100	9½	.188
1857.....			41 0	.089	67	.146	51	.111	13	.264
1858.....			33 0	.072	63	.137	43	.093	11½	.228
1859.....			31 0	.067	67	.146	52	.113	14¾	.299
1860.....			32 0	.070	68	.148	60	.130	16½	.330
1861.....			29 0	.063	69	.150	55	.119	12	.243
1862.....			28 0	.061	81	.176	60	.130	13½	.274
1863.....			27 0	.059	81	.176	67	.146	12¾	.259
1864.....			32 0	.070	77	.167	67	.146	11	.223
1865.....			27 0	.059	78	.169	58	.126	11	.223
1866.....			26 0	.056	79	.172	51	.111	11¾	.238
1867.....	22 0	\$0.048	28 0	.061	76	.165	45	.098	11¾	.238
1868.....	22 6	.049	28 0	.061	71	.154	39	.085	14	.284
1869.....	24 6	.053	30 0	.065	71	.154	43	.093	13	.264
1870.....	23 6	.051	30 0	.065	64	.139	45	.098	12	.243
1871.....	25 6	.055	31 0	.067	67	.146	56	.122	11½	.233
1872.....	26 6	.058	30 0	.065	79	.172	71	.154	11½	.233
1873.....	25 0	.054	28 0	.061	100	.217	86	.187	12	.243
1874.....	24 0	.052	26 6	.058	112	.243	84	.182	11½	.233
1875.....	22 6	.049	25 0	.054	105	.228	80	.174	11	.223
1876.....	23 0	.050	26 0	.056	105	.228	74	.161	9½	.193
1877.....	25 6	.055	30 0	.065	102	.222	77	.167	7¾	.157
1878.....	21 6	.047	25 0	.054	101	.219	62	.135	7¾	.157
1879.....	21 3	.046	24 0	.052	90	.196	58	.126	9	.183
1880.....	21 6	.047	25 6	.055	87	.189	61	.133	8¾	.177
1881.....	22 0	.048	26 6	.058	80	.174	49	.106	6½	.132
1882.....	21 6	.047	25 6	.055	65	.141	39	.085	5	.101
1883.....	20 3	.044	24 6	.053	76	.165	43	.093	5¾	.117
1884.....	13 3	.029	17 6	.038	62	.135	47	.102	6½	.127
1885.....	14 3	.031	17 6	.038	60	.130	39	.085	6½	.132
1886.....	11 9	.026	14 3	.031	68	.148	46	.100	6½	.132
1887.....	12 6	.027	14 6	.032	90	.196	78	.169	5	.101
1888.....	13 9	.030	16 0	.035	80	.174	64	.139	4	.081
1889.....	16 6	.036	19 0	.041	95	.206	76	.165	4½	.086
1890.....	12 6	.027	15 3	.033	101	.219	83	.180	4½	.091
1891.....	13 6	.029	15 6	.034	101	.219	76	.165	5½	.112

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	22. Tea, average import price.		23. Iron, Scotch pig.		24. Iron, bars, common.		25. Copper, Chile, bars.		26. Copper, English tough cake.	
	Per pound.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.
	d.		s. d.		£		£		£	
1846.....	13	\$0.264	67 3	\$16.364	9½	\$46.232	83	\$0.180	91	\$0.198
1847.....	13	.264	65 4	15.897	9¾	47.448	89	.193	97	.211
1848.....	12¼	.248	40 4	9.814	7	34.066	78	.169	85	.185
1849.....	13	.264	45 6	11.071	6¼	30.416	77	.167	84	.182
1850.....	15¼	.309	44 2	10.747	5¾	28.591	78	.169	85	.185
1851.....	14¼	.289	39 9	9.672	5½	26.766	78	.169	85	.185
1852.....	12¼	.248	45 1	10.970	6¼	30.416	89	.193	97	.211
1853.....	15¼	.309	62 3	15.147	9¼	45.015	106	.230	116	.252
1854.....	15½	.314	79 8	19.385	10	48.665	115	.250	126	.274
1855.....	15½	.305	70 9	17.215	8½	41.365	115	.250	126	.274
1856.....	14½	.296	72 6	17.641	8½	43.190	108	.235	119	.259
1857.....	17¼	.353	69 2	16.830	8½	40.149	113	.245	124	.269
1858.....	16¼	.336	54 4	13.221	7	34.066	98	.213	108	.235
1859.....	18½	.377	51 9	12.592	6¾	32.849	98	.213	108	.235
1860.....	18½	.378	53 6	13.018	6½	31.632	95	.206	105	.228
1861.....	17½	.345	49 3	11.984	6	29.199	89	.193	99	.215
1862.....	19½	.389	53 0	12.896	6¼	30.416	87	.189	97	.211
1863.....	18½	.379	55 9	13.565	7	34.066	86	.187	94	.204
1864.....	18½	.369	57 3	13.930	8¼	40.149	89	.193	101	.219
1865.....	19½	.403	54 9	13.322	7¾	37.715	83	.180	92	.200
1866.....	19½	.391	60 6	14.721	7¼	35.282	81	.176	88	.191
1867.....	18½	.383	53 6	13.018	6¾	32.849	71	.154	78	.169
1868.....	19½	.391	52 9	12.835	6¾	31.024	70	.152	76	.165
1869.....	17½	.361	53 3	12.957	6¾	32.849	69	.150	75	.163
1870.....	17½	.348	54 4	13.221	7½	35.890	65	.141	70	.152
1871.....	16½	.333	58 11	14.336	7½	37.107	69	.150	75	.163
1872.....	16½	.340	101 10	24.779	11	53.532	93	.202	96	.209
1873.....	16½	.338	117 3	28.530	12½	60.831	84	.182	92	.200
1874.....	17	.345	87 6	21.291	10¼	49.882	79	.172	88	.191
1875.....	16½	.339	65 9	15.999	8¾	40.757	82	.178	88	.191
1876.....	16½	.333	58 6	14.235	7¼	35.282	76	.165	82	.178
1877.....	15½	.324	54 4	13.221	6¾	32.849	68	.148	75	.163
1878.....	15½	.310	48 5	11.781	5½	27.374	62	.135	67	.146
1879.....	14½	.298	47 0	11.436	5¼	27.982	58	.126	64	.139
1880.....	13½	.273	54 6	13.261	6¾	32.849	63	.137	68	.148
1881.....	12¼	.260	49 1	11.943	5¾	27.982	62	.135	67	.146
1882.....	12½	.255	49 4	12.004	6¼	30.416	66	.143	71	.154
1883.....	12½	.253	46 9	11.376	5¾	27.982	63	.137	67	.146
1884.....	11½	.239	42 1	10.240	5½	24.941	54	.117	59	.128
1885.....	12½	.245	41 10	10.179	4¾	23.724	43	.093	47	.102
1886.....	11½	.239	39 11	9.713	4½	22.508	40	.087	44	.096
1887.....	10½	.215	42 3	10.281	4½	22.508	44	.096	47	.102
1888.....	10½	.223	39 11	9.713	4¾	23.724	81	.176	78	.169
1889.....	10½	.219	47 9	11.619	6¼	30.416	51	.111	54	.117
1890.....	10½	.216	49 7	12.065	6¾	31.024	54	.117	59	.128
1891.....	10½	.218	47 2	11.477	5½	27.374	51	.111	55	.119

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	27. Tin, Straits.		28. Lead, English pig.		29. Coal, Wallsend, Hetton, in London.		30. Coal, average export price.		31. Cotton, middling upland.	
	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per pound.
	£		£		s. d.		s.		d.	
1846.....	90	\$0.200	19	\$0.041	18 0	\$4.380	7 ⁶⁷ / ₁₀₀	\$1.866	47 ⁸ / ₁₆	\$0.099
1847.....	87	.189	18 ³ / ₄	.041	20 6	4.988	7 ¹ / ₆	1.898	61 ⁸ / ₁₆	.124
1848.....	78	.169	17	.037	18 0	4.380	7 ⁸¹ / ₁₀₀	1.900	41 ⁸ / ₁₆	.084
1849.....	77	.167	15 ³ / ₄	.034	17 6	4.258	7 ⁶⁹ / ₁₀₀	1.871	51 ⁸ / ₁₆	.104
1850.....	78	.169	17 ³ / ₄	.039	17 0	4.137	7 ²³ / ₁₀₀	1.864	7	.142
1851.....	82	.178	17 ¹ / ₄	.037	16 0	3.893	7 ⁵¹ / ₁₀₀	1.827	51 ⁸ / ₁₆	.112
1852.....	85	.185	17 ³ / ₄	.039	16 6	4.015	7 ²⁷ / ₁₀₀	1.835	5 ⁵ / ₁₆	.108
1853.....	113	.245	24	.052	22 0	5.353	8 ⁴ / ₂₅	1.986	53 ⁸ / ₁₆	.117
1854.....	116	.252	24	.052	23 6	5.718	9 ⁸⁷ / ₁₀₀	2.402	53 ⁸ / ₁₆	.109
1855.....	115	.250	23 ¹ / ₂	.051	22 0	5.353	9 ⁸³ / ₁₀₀	2.392	53 ⁸ / ₁₆	.114
1856.....	133	.289	25	.054	18 6	4.502	9 ⁶¹ / ₁₀₀	2.338	6 ⁵ / ₁₆	.128
1857.....	134	.291	24 ¹ / ₄	.053	18 6	4.502	9 ¹³ / ₂₅	2.316	73 ⁸ / ₁₆	.157
1858.....	117	.254	22 ¹ / ₄	.048	18 0	4.380	9 ³³ / ₁₀₀	2.270	67 ⁸ / ₁₆	.140
1859.....	134	.291	22 ¹ / ₂	.049	18 6	4.502	9 ³³ / ₁₀₀	2.270	63 ⁸ / ₁₆	.137
1860.....	131	.285	22	.048	20 6	4.988	9 ³ / ₅₀	2.205	61 ⁸ / ₁₆	.127
1861.....	119	.259	20 ¹ / ₂	.045	20 0	4.867	9 ¹⁹ / ₁₀₀	2.236	8 ⁹ / ₁₆	.174
1862.....	116	.252	20 ³ / ₄	.045	18 0	4.380	9 ¹ / ₂₀	2.202	17 ¹ / ₄	.350
1863.....	126	.261	20 ³ / ₄	.045	18 0	4.380	9	2.190	23 ¹ / ₄	.471
1864.....	104	.226	21	.046	20 0	4.867	9 ¹² / ₂₅	2.307	27 ¹ / ₂	.558
1865.....	91	.198	20	.043	20 0	4.867	9 ⁵⁹ / ₁₀₀	2.358	19	.385
1866.....	82	.178	20 ¹ / ₂	.045	19 6	4.745	10 ²⁹ / ₁₀₀	2.504	15 ¹ / ₂	.314
1867.....	87	.189	19 ³ / ₄	.043	20 0	4.867	10 ³⁹ / ₁₀₀	2.528	107 ⁸ / ₁₆	.221
1868.....	95	.206	19 ¹ / ₄	.042	18 6	4.502	9 ²³ / ₂₅	2.414	101 ⁸ / ₁₆	.213
1869.....	126	.274	19 ¹ / ₄	.042	18 6	4.502	9 ²³ / ₂₅	2.341	121 ⁸ / ₁₆	.246
1870.....	125	.272	18 ¹ / ₂	.040	18 6	4.502	9 ¹⁶ / ₂₅	2.346	9 ¹⁵ / ₁₆	.202
1871.....	134	.291	18 ¹ / ₄	.040	19 0	4.623	9 ⁴ / ₅	2.385	8 ⁹ / ₁₆	.174
1872.....	146	.317	20 ¹ / ₄	.044	25 6	6.205	15 ⁸³ / ₁₀₀	3.852	10 ⁹ / ₁₆	.214
1873.....	132	.287	23 ¹ / ₂	.051	32 0	7.786	20 ⁹ / ₁₀	5.086	9	.183
1874.....	98	.213	22 ¹ / ₄	.048	25 0	6.083	17 ²¹ / ₁₀₀	4.188	8	.162
1875.....	84	.182	22 ¹ / ₂	.049	24 0	5.840	13 ⁷ / ₂₅	3.231	73 ⁸ / ₁₆	.150
1876.....	74	.161	21 ³ / ₄	.047	21 0	5.110	10 ⁹³ / ₁₀₀	2.660	64	.127
1877.....	68	.148	20 ¹ / ₂	.045	20 0	4.867	10 ¹⁷ / ₁₀₀	2.475	6 ⁵ / ₁₆	.128
1878.....	61	.133	16 ⁵ / ₈	.036	18 0	4.380	9 ²³ / ₅₀	2.302	61 ⁸ / ₁₆	.124
1879.....	73	.159	15 ¹ / ₈	.033	18 0	4.380	8 ⁷⁷ / ₁₀₀	2.134	6 ⁶ / ₁₆	.128
1880.....	88	.191	16 ¹ / ₈	.036	15 6	3.772	8 ¹⁹ / ₂₀	2.178	61 ⁵ / ₁₆	.141
1881.....	93	.202	15 ¹ / ₈	.033	17 0	4.137	8 ⁹⁷ / ₁₀₀	2.183	6 ⁷ / ₁₆	.131
1882.....	102	.222	14 ¹ / ₂	.032	17 0	4.137	9 ⁷ / ₅₀	2.224	65 ⁸ / ₁₆	.134
1883.....	93	.202	12 ⁷ / ₈	.028	18 0	4.380	9 ⁷ / ₂₀	2.275	53 ⁸ / ₁₆	.117
1884.....	81	.176	11 ¹ / ₄	.024	16 6	4.015	9 ²⁹ / ₁₀₀	2.260	6	.122
1885.....	87	.189	11 ⁵ / ₈	.025	16 6	4.015	8 ¹⁹ / ₂₀	2.178	56 ⁸ / ₁₆	.114
1886.....	98	.213	13 ¹ / ₄	.029	16 0	3.893	8 ⁹ / ₂₀	2.056	51 ⁸ / ₁₆	.104
1887.....	112	.243	12 ⁷ / ₈	.028	16 0	3.893	8 ⁸ / ₂₅	2.025	51 ⁸ / ₁₆	.112
1888.....	117	.254	13 ⁷ / ₈	.030	16 6	4.015	8 ⁴¹ / ₁₀₀	2.046	5 ⁹ / ₁₆	.113
1889.....	93	.202	13	.028	17 6	4.258	10 ²¹ / ₁₀₀	2.485	51 ⁵ / ₁₆	.120
1890.....	94	.204	13 ¹ / ₄	.029	19 0	4.623	12 ³¹ / ₅₀	3.071	6	.122
1891.....	91	.198	12 ¹ / ₂	.027	19 0	4.623	12 ⁴ / ₂₅	2.959	41 ⁸ / ₁₆	.095

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	32. Cotton, fair Dhollerah (Surat).		33. Flax, St. Petersburg, 12- head, best.		34. Flax, Russian, aver- age import.		35. Hemp, manila, fair, roping.		36. Hemp, St. Petersburg, clean.	
	Per pound.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.
	d.		£		£		£		£	
1846.....	3½	\$0.071			49	\$0.106	38	\$0.083	33	\$0.072
1847.....	4½	.091			50	.109	39	.085	38	.083
1848.....	3¼	.066			39	.085	35	.076	32	.070
1849.....	3½	.079			37	.080	31	.067	30	.065
1850.....	5½	.107			42	.091	32	.070	31	.067
1851.....	4¼	.086			46	.100	44	.096	29	.063
1852.....	4¼	.086			47	.102	44	.096	32	.070
1853.....	4½	.084			48	.104	44	.096	37	.080
1854.....	3½	.074			57	.124	55	.119	58	.126
1855.....	4	.081			51	.111	45	.098	47	.102
1856.....	4¾	.096			44	.096	43	.093	36	.078
1857.....	5½	.112			36	.078	32	.070	34	.074
1858.....	5½	.112			46	.100	28	.061	29	.063
1859.....	5	.101			52	.113	25	.054	29	.063
1860.....	5	.101			50	.109	24	.052	30	.065
1861.....	6⅝	.128			48	.104	22	.048	32	.070
1862.....	12⅝	.261			56	.122	26	.056	36	.078
1863.....	19¼	.390			54	.117	27	.059	40	.087
1864.....	21¾	.436			53	.115	33	.072	35	.076
1865.....	14½	.294			52	.113	33	.072	31	.067
1866.....	12	.243			55	.119	46	.100	34	.074
1867.....	8¾	.177	41	\$0.089	55	.119	50	.109	36	.078
1868.....	8½	.172	48½	.105	52	.113	49	.106	38	.083
1869.....	9¾	.198	47	.102	52	.113	48	.104	36	.078
1870.....	8½	.165	45½	.099	50	.109	54	.117	34	.074
1871.....	5⅝	.118	41½	.090	43	.098	49	.106	33	.072
1872.....	7½	.152	49	.106	48	.104	48	.104	36	.078
1873.....	6⅝	.126	47½	.103	44	.096	43	.093	36	.078
1874.....	5⅝	.108	44	.096	42	.091	38	.083	34	.074
1875.....	5	.101	49½	.108	45	.098	32	.070	34	.074
1876.....	4½	.091	47	.102	47	.102	30	.065	37	.080
1877.....	5⅝	.105	45	.098	43	.093	28	.061	35	.076
1878.....	4⅝	.100	39½	.086	40	.097	25	.054	29	.063
1879.....	5	.101	34	.074	35	.076	27	.059	25	.054
1880.....	5¼	.107	35	.076	40	.097	30	.065	23	.050
1881.....	4¾	.089	32½	.071	33	.072	43	.093	24	.052
1882.....	4⅝	.087	29½	.064	30½	.066	46	.100	24	.052
1883.....	3⅝	.079	30	.065	30½	.066	46	.100	26	.056
1884.....	3⅝	.080	29½	.064	30¼	.067	38	.083	29	.063
1885.....	4¼	.086	34	.074	35	.076	35	.076	29	.063
1886.....	3⅝	.072	35	.076	35	.076	29	.063	29	.063
1887.....	3⅝	.072	32	.070	31½	.068	34	.074	29	.063
1888.....	3⅝	.079	29	.063	28	.061	37	.080	26	.056
1889.....	4½	.084	28	.061	28	.061	50	.109	26	.056
1890.....	3⅝	.080	27	.059	26	.056	39	.085	26	.056
1891.....	3¼	.066	28	.061	26	.056	32	.070	24	.052

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	37. Jute, good medium.		38. Wool, merino, Port Philip, average fleece.		39. Wool, merino, Adelaide, average grease.		40. Wool, English, Lincoln, half hogs.		41. Silk, Tsatlee.	
	Per 2,240 pounds.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
	£		d.		d.		d.		s. d.	
1846.....	18	\$0. 039	18	\$0. 365	.....	.....	13	\$0. 264	16 0	\$3. 893
1847.....	17	. 037	16	. 324	.....	.....	12	. 243	14 0	3. 407
1848.....	15	. 033	13	. 264	5½	\$0. 112	11	. 223	13 0	3. 163
1849.....	15	. 033	16	. 324	7	. 142	10	. 203	15 0	3. 650
1850.....	16	. 035	17	. 345	7½	. 152	11	. 223	19 0	4. 623
1851.....	13	. 028	17	. 345	7½	. 152	12½	. 253	18 0	4. 380
1852.....	16	. 035	19½	. 395	9	. 183	13½	. 274	18 0	4. 380
1853.....	22	. 048	20	. 406	9½	. 193	16	. 324	18 0	4. 380
1854.....	18	. 039	18	. 365	8¾	. 177	15½	. 314	16 0	3. 893
1855.....	19	. 041	19½	. 395	9¼	. 188	13	. 264	16 0	3. 893
1856.....	18	. 039	23	. 466	11	. 223	16	. 324	22 0	5. 353
1857.....	17	. 037	23	. 466	11½	. 233	20½	. 416	24 0	5. 840
1858.....	16	. 035	22½	. 456	11	. 223	15½	. 317	19 0	4. 623
1859.....	16	. 035	23½	. 476	11½	. 233	18½	. 378	21 0	5. 110
1860.....	16	. 035	24	. 487	12	. 243	20½	. 408	23 0	5. 597
1861.....	17½	. 038	22	. 446	10½	. 213	19½	. 395	20 0	4. 867
1862.....	21	. 046	22	. 446	10½	. 213	20½	. 416	21 0	5. 110
1863.....	27	. 059	22	. 446	10¾	. 218	22½	. 459	21 0	5. 110
1864.....	25½	. 055	23	. 466	11¼	. 228	27½	. 555	22 0	5. 353
1865.....	19½	. 042	22½	. 456	10¾	. 218	25¾	. 522	27 0	6. 570
1866.....	22	. 048	23½	. 476	11¾	. 238	23½	. 476	28 0	6. 813
1867.....	19½	. 042	21½	. 436	10	. 203	18¾	. 383	27 0	6. 570
1868.....	19½	. 042	20	. 406	8½	. 175	17½	. 355	25 0	6. 083
1869.....	19	. 041	17	. 345	7½	. 152	18½	. 368	26 0	6. 327
1870.....	22½	. 048	17	. 345	7½	. 155	16¾	. 340	28 0	6. 813
1871.....	23½	. 051	21	. 426	10½	. 205	21¾	. 433	27 0	6. 570
1872.....	20½	. 045	26	. 527	12½	. 256	25½	. 520	26 0	6. 327
1873.....	18	. 039	25	. 507	11¾	. 238	24½	. 497	21 9	5. 292
1874.....	18	. 039	23½	. 476	11½	. 233	20¾	. 421	17 0	4. 137
1875.....	16½	. 036	22	. 446	10½	. 216	19¾	. 400	15 9	3. 832
1876.....	16½	. 036	20½	. 411	9½	. 185	17¾	. 352	21 0	5. 110
1877.....	17½	. 038	20½	. 411	9½	. 185	16¼	. 330	20 0	4. 867
1878.....	17	. 037	20	. 406	9½	. 185	15	. 304	16 6	4. 015
1879.....	16½	. 036	18¾	. 380	8½	. 172	12½	. 253	16 0	3. 893
1880.....	18¾	. 041	21½	. 436	10½	. 216	15½	. 307	15 0	3. 650
1881.....	18½	. 040	19½	. 395	9¼	. 188	12¾	. 251	15 9	3. 832
1882.....	15	. 033	19¼	. 400	9	. 183	11¼	. 228	15 9	3. 832
1883.....	14¼	. 031	19	. 385	8½	. 172	10	. 203	15 9	3. 832
1884.....	13½	. 029	18½	. 370	8½	. 165	10	. 203	14 6	3. 528
1885.....	12	. 026	16½	. 335	6¾	. 137	9½	. 200	12 9	3. 102
1886.....	11½	. 025	15½	. 314	6½	. 134	10	. 203	13 9	3. 346
1887.....	12½	. 027	15½	. 319	7	. 142	10½	. 216	14 6	3. 528
1888.....	13½	. 029	15¾	. 319	7	. 142	10½	. 210	13 0	3. 163
1889.....	15	. 033	17½	. 355	8¼	. 167	11	. 223	13 6	3. 285
1890.....	13¼	. 029	16	. 324	7½	. 152	11	. 223	14 0	3. 407
1891.....	13	. 028	14¾	. 299	6¾	. 140	9¾	. 198	13 0	3. 163

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	42. Hides, River Plate, dry.		43. Hides, River Plate, salted.		44. Leather, crop hides, 30-45 pounds.		45. Tallow, St. Petersburg, Y. C.		46. Tallow, town.	
	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.
	d.		d.		d.		s.		s. d.	
1846.....	6½	\$0.132			11	\$0.223	44	\$0.096		
1847.....	5½	.119			10½	.213	48	.104		
1848.....	4¾	.097			9¾	.198	47	.102		
1849.....	4¾	.094			9½	.193	39	.085		
1850.....	4¾	.099			9½	.193	37	.080		
1851.....	5¾	.117			10	.203	38	.083		
1852.....	5½	.112			9½	.193	39	.085		
1853.....	6¾	.129			12¼	.248	51	.111	53 0	\$0.115
1854.....	7¾	.150			13½	.274	65	.141	66 0	.143
1855.....	8¾	.177	6	\$0.122	13½	.274	57	.124	58 0	.126
1856.....	10¾	.218	8	.162	14½	.294	53	.115	54 0	.117
1857.....	13½	.274	8½	.172	19¼	.390	58	.126	59 0	.128
1858.....	11	.223	7	.142	15	.304	52	.113	54 0	.117
1859.....	11¼	.228	8	.162	15¾	.319	56	.122	57 0	.124
1860.....	11½	.233	8	.162	17¼	.350	56	.122	57 0	.124
1861.....	10	.203	7	.142	15	.304	54	.117	55 0	.119
1862.....	9½	.188	6½	.132	14½	.294	47	.102	48 0	.104
1863.....	8	.162	5½	.117	14½	.294	43	.093	45 0	.098
1864.....	7¾	.157	5½	.117	14	.284	41	.089	43 0	.093
1865.....	7¾	.147	5½	.112	14	.284	44	.096	46 0	.100
1866.....	7	.142	5½	.112	14½	.294	45	.098	47 0	.102
1867.....	7	.142	5½	.112	14	.284	44	.096	45 0	.098
1868.....	7¾	.157	6	.122	14½	.294	46	.100	47 0	.102
1869.....	8	.162	5½	.112	14½	.294	46	.100	47 0	.102
1870.....	8¼	.167	5¾	.117	14½	.294	44	.096	45 0	.098
1871.....	9	.183	6½	.132	15	.304	45	.098	46 0	.100
1872.....	10½	.213	7½	.152	17½	.355	48	.104	45 0	.098
1873.....	11	.223	8¼	.167	18¼	.370	43	.093	44 0	.096
1874.....	10½	.213	8	.162	17½	.355	42	.091	41 0	.089
1875.....	9¾	.188	8	.162	17½	.350	46	.100	46 0	.100
1876.....	7½	.152	7	.142	16¾	.340	47	.102	44 0	.096
1877.....	8½	.172	7¾	.157	16	.324	43	.093	42 0	.091
1878.....	8½	.172	6¾	.137	14¾	.299	38	.083	38 0	.083
1879.....	8	.162	6¾	.137	14¾	.294	38	.083	36 0	.078
1880.....	9¼	.188	7¾	.152	15¾	.314	41	.089	36 0	.078
1881.....	9	.183	7	.142	15¼	.309	42	.091	38 0	.083
1882.....	9	.183	7	.142	15	.304	52	.113	44 0	.096
1883.....	9	.183	7	.142	15	.304	50	.109	43 0	.093
1884.....	9	.183	7	.142	15	.304	47	.102	37 6	.081
1885.....	8¾	.177	6½	.132	15	.304	38	.083	30 6	.066
1886.....	8	.162	5¾	.117	15	.304	31	.067	26 0	.056
1887.....	7¾	.157	6¼	.127	15	.304	31	.067	24 0	.052
1888.....	6¾	.137	4¾	.099	14	.284	56	.078	28 0	.061
1889.....	6¼	.127	5	.101	13½	.274	38	.083	27 0	.059
1890.....	5¾	.117	5½	.112	13	.264	38	.083	26 0	.056
1891.....	5½	.112	5½	.104	13	.264	40	.087	27 6	.060

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Continued.*

Year.	47. Oil, palm.		48. Oil, olive.		49. Oil, linseed.		50. Linseed.		51. Petroleum, refined.	
	Per 2,240 pounds.	Per pound.	Per 252 gallons.	Per gallon.	Per 2,240 pounds.	Per pound.	Per 8 bushels.	Per bushel.	Per gallon.	Per gallon.
1846.....	£.		£.		£.		s.		d.	
1847.....	32	\$0.070	40	\$0.644	25	\$0.054	48	\$1.415		
1848.....	36	.078	47	.756	26	.056	49	1.445		
1849.....	33	.072	43	.692	23	.050	43	1.268		
1850.....	32	.070	41	.660	27	.059	42	1.238		
1851.....	30	.065	43	.692	32	.070	44	1.297		
1852.....	28	.061	40	.644	31	.067	48	1.415		
1853.....	29	.063	48	.772	28	.061	46	1.356		
1854.....	37	.080	64	1.030	30	.065	49	1.445		
1855.....	48	.104	55	.885	36	.078	62	1.828		
1856.....	44	.096	54	.869	40	.087	68	2.005		
1857.....	42	.091	52	.837	36	.078	60	1.769		
1858.....	45	.098	56	.901	38	.083	64	1.887		
1859.....	39	.085	46	.740	31	.067	54	1.592		
1860.....	45	.098	49	.788	29	.063	51	1.504		
1861.....	46	.100	58	.933	29	.063	55	1.622		
1862.....	45	.098	57	.917	31	.067	59	1.740		
1863.....	43	.093	56	.901	39	.089	64	1.887		
1864.....	37	.080	55	.885	43	.093	64	1.887	25	\$0.422
1865.....	34	.074	57	.917	36	.078	64	1.887	25	.422
1866.....	37	.080	51	.821	34	.074	66	1.946	31	.524
1867.....	42	.091	57	.917	38	.083	60	1.769	24	.405
1868.....	41	.089	62	.997	37	.080	68	2.005	16	.270
1869.....	40	.087	66	1.062	32	.070	63	1.858	16½	.279
1870.....	41	.089	52	.837	30	.065	61	1.799	20	.338
1871.....	39	.085	51	.821	31	.067	61	1.799	19½	.329
1872.....	38	.083	49	.788	33	.072	62	1.828	17½	.296
1873.....	39	.085	48	.772	34	.074	63	1.858	17¼	.300
1874.....	38	.083	43	.692	32	.070	62	1.828	15½	.258
1875.....	36	.078	42	.676	27	.059	59	1.740	10½	.173
1876.....	36	.078	43	.692	24	.052	54	1.592	10	.169
1877.....	38	.083	46	.740	24	.052	51	1.504	14½	.245
1878.....	40	.087	49	.788	28	.061	54	1.592	12	.203
1879.....	38	.083	49	.788	26	.056	49	1.445	9½	.154
1880.....	34	.074	46	.740	27	.059	52	1.533	7½	.125
1881.....	32	.070	41	.660	27	.059	54	1.592	7½	.127
1882.....	32	.070	38	.611	26	.056	50	1.474	7½	.122
1883.....	35	.076	37	.595	23	.050	44	1.297	6	.101
1884.....	41	.089	36	.579	20	.043	42	1.238	6½	.110
1885.....	36	.078	40	.644	20	.043	43	1.268	6½	.110
1886.....	30	.065	39	.627	22	.048	44	1.297	6½	.116
1887.....	24	.052	38	.611	20½	.045	42	1.238	5½	.099
1888.....	22	.048	34	.547	20½	.045	38	1.120	5½	.095
1889.....	22	.048	36	.579	18½	.040	39	1.150	6½	.110
1890.....	25	.054	35	.563	20	.043	42	1.238	5½	.097
1891.....	27	.059	41	.660	23	.050	43	1.268	5½	.093
1891.....	26	.056	43	.692	21	.046	42	1.238	5½	.095

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures—Concluded.*

Year.	52. Soda crystals.		53. Nitrate of soda.		54. Indigo, Bengal, good consuming.		55. Timber, hewn, average import.		56. Timber, sawn or split, average import.	
	Per 2,240 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per pound.	Per pound.	Per load.	Per load.	Per load.	Per load.
	s.		s. d.		s. d.		s.		s.	
1846.....			15 6	\$0.034	3 10	\$0.933	75	\$18.249		
1847.....			14 0	.030	3 1	.750	75	18.249		
1848.....			13 0	.028	3 1	.750	55	13.383		
1849.....			12 0	.026	3 7	.872	60	14.600		
1850.....			14 6	.032	5 4	1.298	55	13.383		
1851.....			14 3	.031	3 9	.913	60	14.600		
1852.....			14 9	.032	4 11	1.196	75	18.249		
1853.....			18 0	.039	4 10	1.176	80	19.466		
1854.....			17 0	.037	4 8	1.136	87	21.169	74	\$18.006
1855.....			17 3	.037	5 4	1.298	84	20.439	72	17.519
1856.....			17 6	.038	5 9	1.399	80	19.466	63	15.330
1857.....			20 6	.045	6 6	1.582	70	17.033	55	13.383
1858.....			17 0	.037	6 6	1.582	65	15.816	48	11.680
1859.....			16 3	.035	6 6	1.582	69	16.789	57	13.870
1860.....			14 9	.032	6 6	1.582	74	18.006	62	15.086
1861.....			13 6	.029	8 7	2.089	76	18.493	58	14.113
1862.....			14 0	.030	7 3	1.764	76	18.493	58	14.113
1863.....			14 6	.032	6 3	1.521	72	17.519	57	13.870
1864.....			15 9	.034	5 10	1.419	72	17.519	57	13.870
1865.....			14 3	.031	6 6	1.582	67	16.303	58	14.113
1866.....			12 6	.027	6 10	1.663	61	14.843	55	13.383
1867.....	95	\$0.010	12 0	.026	7 5	1.805	58	14.113	52	12.653
1868.....	85	.009	13 6	.029	8 4	2.028	61	14.843	51	12.410
1869.....	75	.008	15 9	.034	8 7	2.089	65	15.816	51	12.410
1870.....	87	.009	16 3	.035	8 0	1.947	65	15.816	52	12.653
1871.....	115	.012	16 3	.035	9 9	2.190	56	13.626	46	11.193
1872.....	140	.015	16 0	.035	6 9	1.643	58	14.113	49	11.923
1873.....	100	.011	15 6	.034	6 8	1.622	65	15.816	62	15.086
1874.....	85	.009	12 3	.027	7 0	1.703	64	15.573	65	15.816
1875.....	75	.008	12 3	.027	5 9	1.399	57	13.870	56	13.626
1876.....	80	.009	11 6	.025	6 7	1.602	58	14.113	56	13.626
1877.....	72	.008	14 0	.030	5 6	1.338	56	13.626	58	14.113
1878.....	70	.008	15 0	.033	5 6	1.338	49	11.923	50	12.166
1879.....	68	.007	15 0	.033	6 3	1.521	42	10.220	43	10.463
1880.....	74	.008	15 6	.034	7 3	1.764	49	11.923	52	12.653
1881.....	65	.007	14 6	.032	6 9	1.643	51	12.410	50	12.166
1882.....	63	.007	13 3	.029	6 6	1.582	52	12.653	52	12.653
1883.....	66	.007	11 3	.024	6 3	1.521	52	12.653	48	11.680
1884.....	65	.007	9 6	.021	6 0	1.460	48	11.680	46	11.193
1885.....	55	.006	10 6	.023	5 3	1.277	48	11.680	45	10.950
1886.....	49	.005	10 0	.022	5 0	1.277	43	10.463	43	10.463
1887.....	50	.005	9 6	.021	4 9	1.156	38	9.246	42	10.220
1888.....	48	.005	10 0	.022	4 9	1.156	41	9.976	44	10.706
1889.....	51	.006	9 6	.021	4 6	1.095	47	11.436	49	11.923
1890.....	61	.007	8 6	.018	4 3	1.034	44	10.706	46	11.193
1891.....	64	.007	8 9	.019	4 9	1.156	40	9.733	43	10.463

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck.*

[1867 to 1877=100.]

Year.	1. Wheat, Eng- lish.	2. Wheat, Ameri- can.	3. Flour.	4. Barley.	5. Oats.	6. Maize.	7. Pota- toes.	8. Rice.	1-8. Vege- table food— total.
1846	100	100	111	84	91	120	107	135	848
1847	128	128	126	113	110	138	137	155	1,035
1848	93	93	100	81	79	98	103	87	734
1849	81	81	89	71	67	86	81	77	633
1850	74	74	80	60	63	86	73	85	595
1851	71	71	78	64	72	86	60	80	582
1852	75	75	85	73	73	89	77	90	637
1853	97	97	113	85	81	108	115	107	803
1854	133	133	141	92	107	132	103	122	963
1855	137	137	148	89	106	132	81	130	960
1856	127	127	135	105	97	108	73	100	872
1857	103	103	111	108	97	114	99	102	837
1858	81	81	87	89	94	101	85	75	693
1859	80	80	89	85	89	95	77	85	680
1860	98	98	104	94	94	108	94	102	792
1861	102	102	113	92	91	114	99	105	818
1862	102	102	102	90	87	95	103	105	786
1863	82	82	89	87	82	89	77	110	698
1864	74	74	83	77	77	89	64	95	633
1865	76	76	85	76	84	92	73	107	669
1866	91	91	98	96	94	98	73	120	761
1867	118	118	126	103	100	126	111	117	919
1868	117	117	117	110	108	120	107	110	906
1869	89	89	87	101	100	95	73	95	729
1870	86	86	89	89	88	92	77	95	702
1871	104	100	96	92	97	101	68	98	756
1872	105	105	102	96	89	89	120	100	806
1873	108	113	104	104	98	92	137	95	851
1874	102	102	102	115	111	117	90	100	839
1875	83	86	87	98	110	105	90	82	741
1876	85	86	89	90	101	82	115	90	738
1877	104	98	98	102	100	84	111	100	797
1878	85	86	83	103	94	77	132	100	760
1879	80	86	78	87	84	73	111	96	695
1880	81	91	85	85	89	79	111	91	712
1881	83	93	87	82	84	85	73	83	670
1882	83	87	87	80	84	95	81	74	671
1883	76	80	78	82	82	85	90	81	654
1884	65	65	65	79	78	78	64	77	571
1885	60	62	63	77	79	71	64	70	546
1886	57	62	61	68	73	65	69	66	521
1887	60	61	61	65	63	65	73	68	516
1888	58	66	65	71	64	72	69	71	536
1889	55	63	63	66	69	61	69	72	518
1890	59	63	63	73	72	61	60	72	523
1891	68	71	72	72	77	86	79	79	604

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck—Continued.*

[1867 to 1877 = 100.]

Year.	9. Beef, prime.	10. Beef, middling.	11. Mutton, prime.	12. Mutton, middling.	13. Pork.	14. Bacon.	15. Butter.	9-15. Animal food— total.
1846.....	68	68	84	87	100	77	82	566
1847.....	76	80	87	91	104	97	81	616
1848.....	69	74	84	85	100	92	78	582
1849.....	64	64	70	69	83	78	70	498
1850.....	61	60	68	67	79	66	66	467
1851.....	63	60	70	69	77	69	70	478
1852.....	63	62	70	69	73	73	70	480
1853.....	76	78	86	85	87	85	80	577
1854.....	85	86	86	85	94	91	82	609
1855.....	85	88	84	84	92	92	85	610
1856.....	81	82	84	84	96	96	92	615
1857.....	81	84	86	84	100	95	93	623
1858.....	80	82	81	80	85	80	94	582
1859.....	81	82	84	85	90	80	92	594
1860.....	85	84	89	91	104	92	90	635
1861.....	83	84	87	91	104	95	90	634
1862.....	78	78	84	87	100	88	90	605
1863.....	80	82	86	87	92	85	86	598
1864.....	85	88	87	93	94	88	87	622
1865.....	90	92	102	105	106	93	93	681
1866.....	90	94	97	100	104	99	90	674
1867.....	88	90	87	91	87	84	93	620
1868.....	85	86	81	85	87	89	101	614
1869.....	93	92	92	93	106	103	92	671
1870.....	95	96	92	95	108	100	99	685
1871.....	102	106	100	107	98	85	104	702
1872.....	100	104	106	111	96	97	95	709
1873.....	110	112	113	114	104	109	98	760
1874.....	105	102	98	96	104	108	107	720
1875.....	109	110	113	107	110	108	101	758
1876.....	105	104	114	105	113	109	108	758
1877.....	104	98	109	98	98	101	102	710
1878.....	104	98	108	100	96	100	98	704
1879.....	93	90	102	95	92	97	86	655
1880.....	98	98	105	98	106	103	100	708
1881.....	95	96	109	104	104	103	98	709
1882.....	102	102	114	109	98	100	100	725
1883.....	104	102	116	111	94	97	98	722
1884.....	98	98	102	96	92	95	96	677
1885.....	88	88	89	85	87	92	89	618
1886.....	83	80	98	91	87	91	80	610
1887.....	73	72	83	76	83	82	82	551
1888.....	81	78	92	85	77	82	80	575
1889.....	80	78	100	91	83	89	82	603
1890.....	80	76	94	82	81	84	80	577
1891.....	80	80	84	76	75	85	85	565

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck—Continued.*

[1867 to 1877 = 100.]

Year.	16. Sugar, West Indian and beet.	17. Sugar, Java.	18a. Coffee, planta- tion.(a)	18b. Coffee, Rio.(a)	18. Coffee— total.	19a. Tea— Con- gon.(a)	19b. Tea— im- port.(a)	19. Tea— total.	16-19. Sugar, coffee, and tea— total.	1-19. Food— total.
1846										
1847	143	116	60	50	55	82	76	79	393	1,807
1848	117	98	56	52	54	80	76	78	347	1,998
1849	87	74	46	45	46	69	71	70	277	1,593
1850	96	84	54	56	55	75	76	75	310	1,441
1851	100	88	64	75	69	98	88	93	350	1,412
1852	100	91	58	61	59	93	83	88	338	1,398
1853	87	81	58	64	61	73	71	72	301	1,418
1854	96	91	64	72	68	100	88	94	349	1,729
1855	87	88	63	78	70	100	90	95	340	1,912
1856	104	102	64	69	66	80	88	84	356	1,926
1857	122	116	67	72	69	82	85	83	390	1,877
1858	148	144	77	79	78	115	101	108	478	1,938
1859	104	116	72	67	70	100	96	98	388	1,663
1860	100	109	77	81	79	131	108	120	408	1,682
1861	104	112	78	94	86	144	108	126	428	1,855
1862	96	102	79	86	82	107	100	104	384	1,836
1863	87	98	93	94	93	120	112	116	394	1,785
1864	92	95	93	105	99	114	108	111	397	1,693
1865	113	112	88	105	96	98	106	102	423	1,678
1866	96	95	89	91	90	98	116	107	388	1,738
1867	92	91	91	79	85	104	112	108	376	1,811
1868	94	98	87	70	79	104	108	106	377	1,916
1869	95	98	82	61	72	124	112	118	383	1,903
1870	103	105	82	67	75	115	103	109	392	1,792
1871	99	105	74	70	72	107	100	104	380	1,767
1872	109	109	77	86	81	102	96	99	398	1,856
1873	111	105	91	111	101	102	98	100	417	1,932
1874	101	98	115	134	125	107	97	102	426	2,037
1875	97	93	129	131	130	102	99	101	421	1,980
1876	90	88	121	125	123	98	98	98	399	1,898
1877	94	91	121	116	118	84	96	90	393	1,889
1878	106	105	117	120	118	69	93	81	410	1,917
1879	88	88	116	97	106	69	89	79	361	1,825
1880	86	84	103	91	97	80	85	82	349	1,699
1881	89	89	100	95	97	78	78	78	353	1,773
1882	92	93	92	77	84	58	75	66	335	1,714
1883	87	89	75	61	68	45	73	59	303	1,699
1884	84	86	87	67	77	49	72	60	307	1,683
1885	56	62	91	74	73	56	68	62	253	1,501
1886	59	62	69	61	65	58	70	64	250	1,414
1887	50	50	78	72	75	58	69	64	239	1,370
1888	52	51	104	122	113	44	62	53	269	1,336
1889	57	56	92	100	96	36	64	50	259	1,370
1890	69	67	109	119	114	38	63	50	300	1,421
1891	54	54	116	130	123	40	62	51	282	1,382
1891	57	54	116	119	118	49	62	56	285	1,454

a Figures not included in the general average.

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck—*
Continued.

[1867 to 1877 = 100.]

Year.	20. Iron, pig.	21. Iron, bar.	22. Copper.	23. Tin.	24. Lead.	25. Coals, London.	26. Coals. export.	20-26. Minerals, total.
1846.....	97	115	111	86	93	82	61	645
1847.....	95	118	119	83	91	93	62	661
1848.....	59	85	104	74	83	82	62	549
1849.....	66	76	103	73	77	80	62	537
1850.....	64	71	104	74	87	77	62	539
1851.....	58	67	104	78	84	73	60	524
1852.....	65	76	119	81	87	75	60	563
1853.....	90	112	141	108	117	100	65	733
1854.....	115	121	153	111	117	107	79	803
1855.....	103	103	153	110	115	100	79	763
1856.....	105	108	144	127	122	84	77	767
1857.....	100	100	151	128	118	84	76	757
1858.....	79	85	131	112	109	82	75	673
1859.....	75	82	131	128	110	84	75	685
1860.....	78	79	127	125	108	93	72	682
1861.....	71	73	119	113	100	91	73	640
1862.....	78	76	116	111	101	82	72	636
1863.....	81	85	115	114	101	82	72	650
1864.....	83	100	119	99	102	91	76	670
1865.....	79	94	111	85	98	91	77	635
1866.....	88	88	108	78	100	89	82	633
1867.....	78	82	95	83	96	91	83	608
1868.....	77	77	93	90	94	84	80	595
1869.....	78	82	92	120	94	84	77	627
1870.....	79	89	87	119	90	84	77	625
1871.....	85	92	92	128	89	87	79	652
1872.....	148	133	124	139	99	116	127	886
1873.....	170	152	112	126	117	145	167	989
1874.....	127	124	105	93	109	114	138	810
1875.....	95	101	109	80	110	109	106	710
1876.....	85	88	101	70	107	95	87	633
1877.....	79	82	91	65	100	91	81	589
1878.....	70	68	83	58	81	82	76	518
1879.....	69	70	77	69	74	82	70	511
1880.....	79	82	84	84	80	70	72	551
1881.....	71	70	83	89	74	77	72	536
1882.....	71	76	88	97	71	77	73	553
1883.....	69	70	84	89	63	82	75	532
1884.....	61	62	72	77	55	75	74	476
1885.....	60	59	57	83	57	75	72	463
1886.....	58	56	53	93	65	73	68	466
1887.....	61	56	59	107	63	73	67	486
1888.....	58	59	108	111	68	75	67	546
1889.....	69	76	68	89	63	80	82	527
1890.....	72	77	72	90	65	86	101	563
1891.....	68	68	68	87	61	86	97	535

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck—Continued.* •

[1867 to 1877 = 100.]

Year.	27. Cotton— upland.	28. Cotton— Dholle- rah.	29. Flax.	30. Hemp.	31. Jute.	32. Wool, merino.	33. Wool, English.	34. Silk.	27-34. Textiles— total.
1846									
1847	54	52	104	91	95	85	66	70	617
1848	68	67	106	99	90	75	61	61	627
1849	46	48	81	86	79	59	56	56	511
1850	57	57	77	78	79	73	51	65	537
1851	78	78	87	81	84	79	56	83	626
1852	61	63	96	94	68	79	63	78	602
1853	59	63	98	85	84	92	68	78	627
1854	64	61	100	104	116	95	81	78	699
1855	60	54	119	145	95	86	78	69	706
1856	63	59	106	118	100	92	66	69	673
1857	70	70	92	101	95	109	81	96	714
1858	86	82	75	85	90	111	104	104	737
1859	76	82	96	73	84	108	69	83	671
1860	75	74	108	69	84	112	94	91	707
1861	69	74	104	69	84	116	102	100	718
1862	95	93	100	69	92	104	99	87	739
1863	192	191	117	79	110	104	104	91	988
1864	258	285	112	86	142	105	114	91	1,193
1865	306	318	110	87	134	110	139	96	1,300
1866	211	215	108	81	103	107	130	117	1,072
1867	172	178	115	103	116	113	119	122	1,038
1868	121	129	102	110	103	101	95	117	878
1869	117	126	107	112	101	92	88	109	852
1870	135	144	105	108	100	79	92	113	876
1871	110	120	102	113	117	79	85	122	848
1872	95	86	92	105	124	100	108	117	827
1873	117	111	103	108	108	124	130	113	914
1874	100	92	97	101	95	118	124	95	822
1875	89	79	92	92	95	113	105	74	739
1876	82	74	100	85	87	105	100	68	701
1877	69	67	100	86	87	94	88	91	682
1878	70	77	94	81	92	94	82	87	677
1879	66	73	84	69	90	93	76	72	623
1880	70	74	73	67	87	88	63	69	591
1881	77	78	79	68	99	103	77	65	646
1882	71	65	70	86	98	92	63	68	613
1883	74	64	64	90	79	92	57	68	588
1884	64	58	65	92	75	89	51	68	562
1885	67	59	64	86	71	85	51	63	546
1886	62	63	73	82	63	73	50	55	521
1887	57	53	75	74	61	70	51	60	501
1888	62	53	68	81	64	72	54	63	517
1889	62	58	61	81	70	72	53	57	514
1890	66	61	60	97	79	82	56	59	560
1891	67	58	56	82	70	76	56	61	526
1891	52	48	57	72	68	70	49	57	473

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck—Continued.*

[1867 to 1877 = 100.]

Year.	35. Hides	36. Leath- er.	37. Tal- low.	38. Oil, palm.	39. Oil, olive.	40. Lin- seed oil and lin- seed.	41. Petro- leum (a)	42. Soda crys- tals.	43. Ni- trate of soda.	44. Indi- go.	45. Tim- ber.	35-45. Sundry mate- rials— total.	20-45. All mate- rials— total.	1-45. Grand total.
1846.....	72	69	98	80	80	82	.....	.....	111	53	125	770	2,032	3,839
1847.....	65	66	107	92	94	84	.....	.....	100	42	125	775	2,063	4,061
1848.....	53	61	104	85	86	75	.....	.....	93	42	92	691	1,751	3,344
1849.....	51	59	87	82	82	80	.....	.....	86	49	100	676	1,750	3,191
1850.....	53	59	82	77	86	90	.....	.....	104	73	92	716	1,881	3,293
1851.....	64	62	84	72	80	92	.....	.....	102	52	100	708	1,834	3,232
1852.....	61	59	87	74	96	85	.....	.....	105	68	125	760	1,950	3,368
1853.....	71	77	116	95	128	91	.....	.....	129	67	133	907	2,339	4,068
1854.....	82	84	145	123	110	112	.....	.....	121	64	142	983	2,492	4,404
1855.....	92	84	128	113	108	123	.....	.....	123	73	136	980	2,416	4,342
1856.....	117	91	119	108	104	110	.....	.....	125	79	125	978	2,459	4,336
1857.....	135	120	130	115	112	117	.....	.....	146	90	109	1,074	2,568	4,506
1858.....	111	94	118	100	92	97	.....	.....	121	90	98	921	2,265	3,928
1859.....	120	98	126	115	98	91	.....	.....	116	90	110	964	2,356	4,038
1860.....	121	108	126	118	116	95	.....	.....	105	90	119	998	2,398	4,253
1861.....	106	94	121	115	114	101	.....	.....	96	119	117	983	2,362	4,198
1862.....	98	91	106	110	112	118	.....	.....	100	100	117	952	2,576	4,361
1863.....	86	91	98	95	110	125	.....	.....	104	86	113	908	2,751	4,444
1864.....	84	88	93	87	114	114	.....	.....	112	80	113	885	2,855	4,533
1865.....	80	88	100	95	102	112	.....	.....	102	90	109	878	2,585	4,323
1866.....	79	91	102	108	114	114	.....	.....	89	94	101	892	2,563	4,374
1867.....	79	88	99	105	124	118	.....	103	86	102	96	1,000	2,486	4,402
1868.....	87	91	103	103	132	106	.....	92	96	115	97	1,022	2,469	4,372
1869.....	84	91	103	105	104	101	.....	82	112	119	101	1,002	2,505	4,297
1870.....	87	91	99	100	102	103	.....	85	116	110	102	995	2,468	4,235
1871.....	96	94	101	97	98	107	.....	125	116	124	89	1,047	2,526	4,382
1872.....	112	109	103	100	96	109	.....	152	114	93	94	1,082	2,882	4,814
1873.....	120	114	97	97	86	105	122	109	110	92	111	1,163	2,974	5,011
1874.....	115	109	92	92	84	94	82	92	88	97	113	1,058	2,607	4,587
1875.....	109	108	102	92	86	85	80	82	88	79	99	1,010	2,421	4,319
1876.....	93	105	101	97	92	82	116	87	82	91	100	1,046	2,361	4,250
1877.....	101	100	94	103	98	92	96	78	100	75	100	1,037	2,303	4,220
1878.....	94	92	84	97	98	85	73	76	107	76	87	969	2,110	3,935
1879.....	92	91	82	87	92	89	59	74	107	86	75	934	2,036	3,735
1880.....	105	97	86	82	82	90	60	80	111	100	89	982	2,179	3,952
1881.....	100	95	89	82	76	85	58	71	104	93	89	942	2,091	3,805
1882.....	100	94	107	90	74	75	48	69	95	90	91	933	2,074	3,773
1883.....	100	94	103	105	72	68	52	72	80	86	88	920	2,014	3,697
1884.....	100	94	94	92	80	69	52	71	68	83	82	885	1,907	3,408
1885.....	95	94	76	77	78	73	55	60	75	72	81	836	1,820	3,234
1886.....	85	94	63	61	76	69	47	53	71	69	76	764	1,731	3,101
1887.....	88	94	61	56	68	65	45	54	68	66	70	735	1,738	3,074
1888.....	73	87	71	56	72	63	52	52	71	66	74	737	1,797	3,167
1889.....	70	84	72	64	70	69	46	55	68	62	84	744	1,831	3,252
1890.....	70	81	71	69	82	73	45	66	61	59	79	756	1,845	3,227
1891.....	66	81	75	67	86	70	45	70	63	66	73	762	1,770	3,224

a Compared with average of 1873 to 1877 only.

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck—*
Concluded.

[1867 to 1877=100.]

Year.	Vege- table food (corn, etc.).	Animal food (meat, etc.).	Sugar, coffee, and tea.	Total food.	Min- erals.	Tex- tiles.	Sundry mate- rials.	Total mate- rials.	Grand total.
1846									
1847	106	81	98	95	92	77	86	85	89
1848	129	88	87	105	94	78	86	86	95
1849	92	83	69	84	78	64	77	73	78
1850	79	71	77	76	77	67	75	73	74
1851	74	67	87	75	77	78	80	78	77
1852	73	68	84	74	75	75	79	76	75
1853	80	69	75	75	80	78	84	81	78
1854	100	82	87	91	105	87	101	97	95
1855	120	87	85	101	115	88	109	104	102
1856	120	87	89	101	109	84	109	101	101
1857	109	88	97	99	110	89	109	102	101
1858	105	89	119	102	108	92	119	107	105
1859	87	83	97	88	96	84	102	94	91
1860	85	85	102	89	98	88	107	98	94
1861	99	91	107	98	97	90	111	100	99
1862	102	91	96	97	91	92	109	99	98
1863	98	86	98	94	91	123	106	107	101
1864	87	85	99	89	93	149	101	115	103
1865	79	89	106	88	96	162	98	119	105
1866	84	97	97	91	91	134	97	108	101
1867	95	96	94	95	91	130	99	107	102
1868	115	89	94	101	87	110	100	100	100
1869	113	88	96	100	85	106	102	99	99
1870	91	96	98	94	89	109	100	100	98
1871	88	98	95	93	89	106	99	99	96
1872	94	100	100	98	93	103	105	101	100
1873	101	101	104	102	127	114	108	115	109
1874	106	109	106	107	141	103	106	114	111
1875	105	103	105	104	116	92	96	100	102
1876	93	108	100	100	101	88	92	93	96
1877	92	108	98	99	90	85	95	91	95
1878	100	101	103	101	84	85	94	89	94
1879	95	101	90	96	74	78	88	81	87
1880	87	94	87	90	73	74	85	78	83
1881	89	101	88	94	79	81	89	84	88
1882	84	101	84	91	77	77	86	80	85
1883	84	104	76	89	79	73	85	80	84
1884	82	103	77	89	76	70	84	77	82
1885	71	97	63	79	68	68	81	73	76
1886	68	88	63	74	66	65	76	70	72
1887	65	87	60	72	67	63	69	67	69
1888	64	79	67	70	69	65	67	67	68
1889	67	82	65	72	78	64	67	69	70
1890	65	86	75	75	75	70	68	70	72
1891	65	82	70	73	80	66	69	71	72
1891	75	81	71	77	76	59	69	68	72

In the foregoing calculations Mr. Sauerbeck assigns to each article an equal importance in the result. Comparisons should be made with the two results obtained for the United States. By a single average of all the quotations the 1891 price stood at 92.2, while by a weighted average, embracing over two-thirds of the workman's consumption, it was 94.4, as compared with 100 in 1860. By Mr. Sauerbeck's figures the general price is 99 in 1860 and 72 in 1891.

This is a very marked difference, and it may well be inquired what influence a difference in methods may have had in bringing about such a result. In order, however, to make our comparisons perfectly valid, we will reduce the figures of Mr. Sauerbeck to the date line 1860. In preparing the table we have followed the methods of combination used by Mr. Sauerbeck, with one exception. In combining linseed and linseed oil Mr. Sauerbeck uses the average of the prices as the basis of his relative prices. But it is not clear how the measures in one case

of weight and in the other of capacity have been rendered uniform, and we have therefore resorted to the average of the relative prices of each, as is done by Mr. Sauerbeck in regard to tea and coffee.

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891.*

[1860=100.]

Year.	1. Wheat, English Gazette.	2. Wheat, Amer- ican.	3. Flour, town made, white.	4. Barley, English Gazette.	5. Oats, English Gazette.	6. Maize, Ameri- can mixed.	7. Potatoes, good English.	8. Rice, Rangoon, cargoes to arrive.	Total vegeta- ble food.
1846.....	102.7	102.7	106.3	89.3	96.9	111.4	113.6	131.7	854.6
1847.....	131.0	131.0	120.8	120.7	117.4	128.6	145.5	151.2	1,046.2
1848.....	94.8	94.8	95.8	86.1	84.0	91.4	109.1	85.4	741.4
1849.....	83.1	83.1	85.4	75.9	71.7	80.0	86.4	75.6	641.2
1850.....	75.6	75.6	77.1	64.0	67.2	80.0	77.3	82.9	559.7
1851.....	72.3	72.3	75.0	67.7	76.1	80.0	63.6	78.0	585.0
1852.....	76.7	76.7	81.3	77.9	78.2	82.9	81.8	87.8	643.3
1853.....	100.0	100.0	108.3	90.7	86.0	100.0	122.7	104.9	812.6
1854.....	136.0	136.0	135.4	98.4	114.3	122.9	109.1	119.5	971.6
1855.....	140.2	140.2	141.7	95.0	112.3	122.9	86.4	126.8	965.5
1856.....	129.9	129.9	129.2	112.3	103.1	100.0	77.3	97.6	879.3
1857.....	105.8	105.8	106.3	115.0	102.4	105.7	104.5	100.0	845.5
1858.....	82.9	82.9	83.3	94.8	100.3	94.3	90.9	73.2	702.6
1859.....	82.2	82.2	85.4	71.6	94.9	88.6	81.8	82.9	689.6
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	800.0
1861.....	103.9	103.9	108.3	98.6	97.3	105.7	104.5	102.4	824.6
1862.....	104.1	104.1	97.9	95.9	92.5	88.6	109.1	102.4	794.6
1863.....	84.0	84.0	85.4	92.7	86.7	82.9	81.8	107.3	704.8
1864.....	75.4	75.4	79.2	81.8	82.3	82.9	68.2	92.7	637.9
1865.....	78.6	78.6	81.3	81.3	89.4	85.7	77.3	104.9	677.1
1866.....	93.7	93.7	93.7	102.3	100.7	91.4	77.3	117.1	769.9
1867.....	121.0	121.0	118.7	109.3	106.5	117.1	118.2	114.6	926.4
1868.....	119.7	119.7	112.5	117.5	115.0	111.4	113.6	107.3	916.7
1869.....	90.5	90.5	83.3	107.7	106.5	88.6	77.3	92.7	737.1
1870.....	88.0	88.0	85.4	94.5	93.9	85.7	81.8	92.7	710.0
1871.....	106.4	105.2	91.7	98.9	103.1	94.3	72.7	95.9	768.2
1872.....	107.0	110.8	95.8	102.3	94.9	82.9	127.3	97.6	818.6
1873.....	110.2	118.3	106.3	110.5	104.1	85.7	145.5	92.7	873.3
1874.....	104.5	107.0	97.9	122.8	118.1	108.6	95.5	97.6	852.0
1875.....	84.8	90.1	83.3	105.0	117.4	97.1	95.5	80.5	753.7
1876.....	86.7	90.1	85.4	96.1	107.5	76.4	122.7	87.8	752.7
1877.....	106.6	103.3	93.7	108.4	106.1	77.9	118.2	97.6	811.8
1878.....	87.2	90.1	79.2	109.8	99.7	71.4	140.9	97.6	775.9
1879.....	82.3	90.1	75.0	92.9	89.1	67.9	118.2	93.5	709.0
1880.....	83.3	95.8	81.3	90.4	94.5	73.6	118.2	88.6	725.7
1881.....	85.1	97.7	83.3	87.2	89.1	79.3	77.3	81.3	680.3
1882.....	84.7	91.1	83.3	85.2	89.4	88.6	86.4	72.4	681.1
1883.....	78.1	84.5	75.0	87.0	87.7	79.3	95.5	78.9	666.0
1884.....	67.0	68.5	64.6	83.8	82.9	72.1	68.2	74.8	581.9
1885.....	61.7	65.7	60.4	82.2	84.3	65.7	68.2	68.3	556.5
1886.....	58.2	65.7	58.3	72.7	77.8	60.0	72.7	64.2	529.6
1887.....	61.0	63.8	58.3	69.2	66.6	60.7	77.3	66.7	523.6
1888.....	59.8	69.5	62.5	76.1	68.6	67.1	72.7	69.1	545.4
1889.....	55.9	65.7	62.4	70.6	72.7	57.1	72.7	70.7	525.8
1890.....	59.9	66.7	60.4	78.4	76.1	57.1	63.6	70.7	532.9
1891.....	69.5	75.1	68.7	77.0	81.9	80.0	83.6	77.2	613.0

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891—Continued.*

[1860=100.]

Year.	9. Beef, prime.	10. Beef, middling.	11. Mutton, prime.	12. Mutton, middling.	13. Pork, large and small, average.	14. Bacon, Water- ford.	15. Butter, Fries- land, fine to finest.	Total animal food.
1846.....	80.0	81.0	94.6	96.0	96.3	83.8	90.3	622.0
1847.....	90.0	95.2	98.2	100.0	100.0	105.9	89.4	678.7
1848.....	82.0	88.1	94.6	94.0	96.3	100.0	86.7	641.7
1849.....	76.0	76.2	78.6	76.0	79.6	85.3	77.9	549.6
1850.....	72.0	71.4	76.8	74.0	75.9	72.1	72.6	514.8
1851.....	74.0	71.4	78.6	76.0	74.1	75.0	77.0	526.1
1852.....	74.0	73.8	78.6	76.0	70.4	79.4	77.9	530.1
1853.....	90.0	92.8	96.4	94.0	83.3	92.6	88.5	637.6
1854.....	100.0	102.4	96.4	94.9	90.7	98.5	91.2	673.2
1855.....	100.0	104.8	94.6	92.0	88.9	100.0	93.8	674.1
1856.....	96.0	97.6	94.6	92.0	92.6	104.4	101.8	679.0
1857.....	96.0	100.0	96.4	92.0	96.3	102.9	102.7	686.3
1858.....	94.0	97.6	91.1	88.0	81.5	86.8	103.5	642.5
1859.....	96.0	97.6	94.6	94.0	87.0	86.8	101.8	657.8
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	700.0
1861.....	98.0	100.0	98.2	100.0	100.0	102.9	100.0	699.0
1862.....	92.0	92.8	94.6	96.0	96.3	95.6	100.0	667.3
1863.....	94.0	97.6	96.4	96.0	88.9	92.6	94.7	660.2
1864.....	100.0	104.8	98.2	102.0	90.7	95.6	96.5	687.8
1865.....	106.0	109.5	114.3	116.0	101.8	101.5	102.7	751.8
1866.....	106.0	111.9	108.9	110.0	100.0	107.4	99.1	743.3
1867.....	104.0	107.1	98.2	100.0	83.3	91.2	102.7	686.5
1868.....	100.0	102.4	91.1	94.0	83.3	97.1	111.5	679.4
1869.....	110.0	109.5	103.6	102.0	101.8	111.8	101.8	740.5
1870.....	112.0	114.3	103.6	104.0	103.7	108.8	109.7	756.1
1871.....	120.0	126.2	112.5	118.0	94.4	92.6	115.0	778.7
1872.....	118.0	123.8	119.6	122.0	92.6	105.9	105.3	787.2
1873.....	130.0	133.3	126.8	126.0	100.0	119.1	108.8	844.0
1874.....	124.0	121.4	110.7	106.0	100.0	117.6	118.6	798.3
1875.....	128.0	130.9	126.8	118.0	105.6	117.6	111.5	838.4
1876.....	124.0	123.8	128.6	116.0	109.3	119.1	119.5	840.3
1877.....	122.0	116.7	123.2	108.0	94.4	110.3	112.4	787.0
1878.....	122.0	116.7	121.4	110.0	92.6	108.8	108.0	779.5
1879.....	110.0	107.1	114.3	104.0	88.9	105.9	94.7	724.9
1880.....	116.0	116.7	117.9	108.0	101.8	111.8	110.6	782.8
1881.....	112.0	114.3	123.2	114.0	100.0	111.8	108.0	784.1
1882.....	120.0	121.4	128.6	120.0	94.4	108.8	110.6	803.8
1883.....	122.0	121.4	130.4	122.0	90.7	105.9	108.8	801.2
1884.....	116.0	116.7	114.3	106.0	88.9	102.9	106.2	751.0
1885.....	104.0	104.8	100.0	94.0	83.3	100.0	98.2	684.3
1886.....	98.0	95.2	110.7	100.0	83.3	98.5	88.5	674.2
1887.....	86.0	85.7	92.9	84.0	79.6	89.7	91.2	609.1
1888.....	96.0	92.8	103.6	94.0	74.1	89.7	88.5	638.7
1889.....	94.0	92.8	112.5	100.0	79.6	97.1	90.3	666.3
1890.....	94.0	90.5	105.4	90.0	77.8	91.2	88.5	637.4
1891.....	94.0	95.2	94.6	84.0	72.2	92.6	93.8	626.4

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891—Continued.*

[1860=100.]

Year.	16. Sugar, British West Indian, refining, and Ger- man or French beet, average of price.	18. Sugar, Java, floating cargoes.	19. Coffee, Ceylon, planta- tion, low middling.	20. Coffee, Rio, good channel.	Coffee, average of 19 and 20.	21. Tea, Congou, common.	22. Tea, average import price.	Tea, average of 21 and 22.	Total coffee, tea, and sugar.
1846	137.5	103.1	76.5	53.3	64.9	56.9	69.7	63.3	368.8
1847	112.5	87.5	72.1	55.0	63.6	55.4	69.7	62.6	326.2
1848	83.3	65.6	58.8	48.3	53.6	47.7	65.7	56.7	259.2
1849	91.7	75.0	69.1	60.0	64.5	52.3	69.7	61.0	292.2
1850	95.8	78.1	82.4	80.0	81.0	67.7	81.8	74.8	329.7
1851	95.8	81.3	73.5	65.0	69.3	64.6	76.4	70.5	316.9
1852	83.3	71.9	75.0	68.3	71.7	50.8	65.7	58.3	285.2
1853	91.7	81.3	82.4	76.7	79.6	69.2	81.8	75.5	328.1
1854	83.3	78.1	80.9	83.3	82.1	69.2	83.1	76.2	319.7
1855	100.0	90.6	82.4	73.3	77.9	55.4	80.7	68.1	336.6
1856	116.7	103.1	85.3	76.7	81.0	56.9	78.3	67.7	368.4
1857	141.7	128.1	98.5	85.0	91.8	80.0	93.3	86.7	468.3
1858	100.0	103.1	92.6	71.7	82.2	69.2	88.8	79.0	364.3
1859	95.8	96.9	98.5	86.7	92.6	90.8	99.6	95.0	380.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	400.0
1861	91.7	90.6	101.5	91.7	96.6	73.8	91.2	82.0	361.4
1862	83.3	87.5	119.1	100.0	109.6	83.1	102.8	93.0	373.4
1863	87.5	84.4	119.1	111.7	115.4	78.5	100.3	89.4	376.7
1864	108.3	100.0	113.2	111.7	112.5	67.7	97.6	82.7	403.5
1865	91.7	84.4	114.8	96.7	105.7	67.7	106.6	87.2	369.0
1866	87.5	81.3	116.2	85.0	100.6	72.3	103.3	87.8	357.2
1867	91.7	87.5	111.7	75.0	93.4	72.3	101.2	86.8	359.4
1868	92.7	87.5	104.4	65.0	84.7	86.2	103.3	94.8	359.7
1869	101.0	93.8	104.4	71.7	88.1	80.0	95.3	87.7	370.6
1870	96.9	93.8	94.1	75.0	84.6	73.8	92.1	83.0	358.3
1871	106.3	96.9	98.5	93.3	95.9	70.7	88.1	79.4	378.5
1872	108.3	93.8	116.2	118.3	117.3	70.7	90.0	80.4	399.8
1873	99.0	87.5	147.1	143.3	145.2	73.8	89.4	81.6	413.3
1874	94.8	82.8	164.7	140.0	152.4	70.7	91.1	80.9	410.9
1875	88.5	78.1	154.4	133.3	143.9	67.7	89.7	78.7	389.2
1876	92.7	81.3	154.4	123.3	138.9	58.5	88.0	73.3	386.2
1877	104.2	93.8	150.0	128.3	139.2	47.7	85.7	66.7	403.9
1878	86.5	78.1	148.5	103.3	125.9	47.7	82.0	64.9	355.4
1879	83.9	75.0	132.4	96.7	114.6	55.4	78.7	67.1	340.6
1880	87.5	79.7	127.9	101.7	114.8	53.8	72.2	63.0	345.0
1881	90.1	82.8	117.6	81.7	99.7	40.0	68.7	54.4	327.0
1882	86.5	79.7	95.6	65.0	80.3	30.8	67.5	49.2	295.7
1883	81.8	76.6	111.8	71.7	91.8	35.4	66.8	51.1	301.3
1884	55.2	54.7	91.2	78.3	84.8	38.5	63.1	50.8	245.5
1885	57.8	54.7	88.2	65.0	76.6	40.0	64.6	52.3	241.4
1886	49.0	44.5	100.0	76.7	88.4	40.0	63.1	51.6	233.5
1887	50.5	45.3	132.4	130.0	81.2	30.8	56.7	43.8	220.8
1888	55.7	50.0	117.6	106.7	112.2	24.6	58.9	41.8	259.7
1889	67.7	59.4	139.7	126.7	133.2	26.2	57.9	42.1	302.4
1890	53.1	47.7	148.5	138.3	143.4	27.7	57.1	42.4	286.6
1891	56.3	48.4	148.5	126.7	137.6	33.8	57.7	45.8	288.1

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891—Continued.*

[1860=100.]

Year.	23. Iron, Scotch pig.	24. Iron, bars, common.	25. Copper, Chile, bars.	27. Tin, Straits.	28. Lead, English pig.	29. Coal, Wallsend, Hetton, in London.	30. Coal, average export price.	Total minerals.
1846.....	125.7	146.2	87.4	68.7	86.4	87.8	84.7	686.9
1847.....	122.1	150.0	93.7	66.4	85.2	100.0	86.1	703.5
1848.....	75.4	107.7	82.1	59.5	77.3	87.8	86.2	576.0
1849.....	85.0	96.2	81.1	58.8	71.6	85.4	84.9	563.0
1850.....	82.6	90.4	82.1	59.5	80.7	82.9	84.5	562.7
1851.....	74.3	84.6	82.1	62.6	78.4	78.0	82.9	542.9
1852.....	84.3	96.2	93.7	64.9	80.7	80.5	83.2	583.5
1853.....	116.4	142.3	111.6	86.3	109.1	107.3	90.1	763.1
1854.....	148.9	153.8	121.1	88.5	109.1	114.6	108.9	844.9
1855.....	132.2	130.8	121.1	87.8	106.8	107.3	108.5	794.5
1856.....	135.5	136.5	113.7	101.5	113.6	90.2	106.1	797.1
1857.....	129.3	126.9	118.9	102.3	110.2	90.2	105.1	782.9
1858.....	101.6	107.7	103.2	89.3	101.1	87.8	103.0	693.7
1859.....	96.7	103.8	103.2	102.3	102.3	90.2	103.0	701.5
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	700.0
1861.....	92.1	92.3	93.7	90.8	93.2	97.6	101.4	661.1
1862.....	99.1	96.2	91.6	88.5	94.3	87.8	99.9	657.4
1863.....	104.2	107.7	90.5	91.6	94.3	87.8	99.3	675.4
1864.....	107.0	126.9	93.7	79.4	95.5	97.6	104.6	704.7
1865.....	102.3	119.2	87.4	69.5	90.9	97.6	107.0	673.9
1866.....	113.1	111.5	85.3	62.6	93.2	95.1	113.6	674.4
1867.....	100.0	103.8	74.7	66.4	89.8	97.6	114.7	647.0
1868.....	98.6	98.1	73.7	72.5	87.5	90.2	109.5	630.1
1869.....	99.5	103.8	72.6	96.2	87.5	90.2	106.2	656.1
1870.....	101.6	113.5	68.4	95.4	84.1	90.2	106.4	659.6
1871.....	110.1	117.3	72.6	102.3	83.0	92.7	108.2	686.2
1872.....	190.3	169.2	97.9	111.5	92.0	124.4	174.7	960.0
1873.....	219.2	192.2	88.4	100.8	106.8	156.1	230.7	1,094.3
1874.....	163.6	157.7	83.2	74.8	101.1	121.9	190.0	892.3
1875.....	122.9	128.8	86.3	64.1	102.3	117.1	146.6	768.1
1876.....	109.3	111.5	80.0	56.5	98.9	102.4	120.6	679.2
1877.....	101.6	103.8	71.6	51.9	93.2	97.6	112.3	632.0
1878.....	90.5	86.5	65.3	46.6	75.6	87.8	104.4	556.7
1879.....	87.9	88.5	61.1	55.7	68.7	87.8	96.8	546.5
1880.....	101.9	103.8	66.3	67.2	75.0	75.6	98.8	588.6
1881.....	91.7	88.5	65.3	71.0	68.7	82.9	99.0	567.1
1882.....	92.2	96.2	69.5	77.9	65.9	82.9	100.9	585.5
1883.....	87.4	88.5	66.3	71.0	58.5	87.8	103.2	562.7
1884.....	78.7	78.8	56.8	61.8	51.1	80.5	102.5	510.2
1885.....	78.2	75.0	45.3	66.4	52.8	80.5	98.8	497.0
1886.....	74.6	71.2	42.1	74.8	60.2	78.0	93.3	494.2
1887.....	79.0	71.2	46.3	85.5	58.5	78.0	91.8	510.3
1888.....	74.6	75.0	85.3	89.3	63.1	80.5	92.8	560.6
1889.....	89.3	96.2	53.7	71.0	59.1	85.4	112.7	567.4
1889.....	92.7	98.1	56.8	71.8	60.2	92.7	139.3	611.6
1891.....	88.2	86.5	53.7	69.5	56.8	92.7	134.2	581.6

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891—Continued.*

[1860=100.]

Year.	31. Cotton, middling upland.	32. Cotton, fair Dhollerah (Surat).	33 and 34. Flax, average of St. Petersburg, 12-head, best, and Russian, average im- port.	35 and 36. Hemp, aver- age of ma- nila, fair, roping, and St. Peters- burg, clean.	37. Jute, good medium.	38 and 39. Wool, merino, average of Port Phillip, average fleece, and Adelaide, average grease.
1846.....	78.0	69.9	98.0	131.5	112.5	100.0
1847.....	97.9	89.9	100.0	142.6	106.3	88.9
1848.....	65.9	65.0	78.0	124.1	93.8	51.4
1849.....	81.9	77.5	74.0	113.0	93.8	63.9
1850.....	111.9	105.0	84.0	116.7	100.0	68.1
1851.....	87.9	85.0	92.0	135.2	81.3	68.1
1852.....	84.9	85.0	94.0	140.7	100.0	79.2
1853.....	92.0	82.4	96.0	150.0	137.5	81.9
1854.....	86.0	72.5	114.0	209.3	112.5	74.3
1855.....	90.0	80.0	102.0	170.4	118.8	79.9
1856.....	100.9	95.0	88.0	146.3	112.5	94.4
1857.....	123.9	110.0	72.0	122.2	106.3	95.8
1858.....	110.0	110.0	92.0	105.6	100.0	93.1
1859.....	108.0	100.0	104.0	100.0	100.0	97.2
1860.....	100.0	100.0	100.0	100.0	100.0	100.0
1861.....	136.9	126.2	96.0	100.0	109.4	90.3
1862.....	275.9	257.5	112.0	114.8	131.3	90.3
1863.....	371.8	384.9	108.0	124.1	168.8	91.0
1864.....	439.7	429.9	106.0	125.9	159.4	95.1
1865.....	303.8	289.9	104.0	118.5	121.9	92.4
1866.....	247.8	239.9	110.0	148.1	137.5	97.9
1867.....	174.0	175.0	96.0	159.3	121.9	87.5
1868.....	167.9	169.9	100.5	161.1	120.3	79.5
1869.....	193.8	195.0	99.0	155.6	118.8	68.1
1870.....	158.9	162.4	95.5	163.0	139.1	68.4
1871.....	136.9	116.3	86.5	151.9	146.9	86.5
1872.....	168.9	149.9	97.0	155.6	128.1	79.5
1873.....	143.9	123.8	91.5	146.3	112.5	102.1
1874.....	127.9	106.2	86.0	133.3	112.5	97.2
1875.....	117.9	100.0	94.5	122.2	103.1	90.6
1876.....	100.0	89.9	94.0	124.1	103.1	81.6
1877.....	100.9	103.7	88.0	116.7	109.4	81.6
1878.....	97.9	98.7	79.5	100.0	106.3	80.9
1879.....	100.9	100.0	69.0	96.3	103.1	75.7
1880.....	111.0	105.0	75.0	98.1	117.2	89.2
1881.....	103.0	87.5	65.5	124.1	115.6	79.9
1882.....	106.0	86.2	60.0	129.6	93.8	79.9
1883.....	92.0	77.5	60.5	133.3	89.1	76.4
1884.....	96.0	78.7	60.3	124.1	84.4	73.3
1885.....	90.0	85.0	69.0	118.5	75.0	64.6
1886.....	81.9	71.2	70.0	107.4	71.9	61.5
1887.....	87.9	71.2	63.5	116.7	76.6	63.2
1888.....	89.0	77.5	57.0	116.7	82.8	63.2
1889.....	95.0	82.4	56.0	140.7	93.8	71.5
1890.....	96.0	78.7	53.0	120.4	82.8	65.3
1891.....	75.0	65.0	54.0	103.7	81.3	60.1

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891—Continued.*

[1860=100.]

Year.	40. Wool, English, Lincoln, half hogs.	41. Silk, Tsatilee.	Total tex- tile mate- rials.	42 and 43. Hides, average of River Plate, dry, and River Plate, salted.	44. Leather, crop hides, 30-45 pounds.	45 and 46. Tallow, average of St. Peters- burg Y. C. and town.	47. Oil, palm.
1846							
1847	64.6	69.6	724.1	66.7	63.8	77.9	69.6
1848	59.6	60.9	746.1	60.3	60.9	85.0	78.3
1849	54.7	56.5	589.4	48.7	56.5	83.2	71.7
1850	49.7	65.2	619.0	47.4	55.1	69.0	69.6
1851	54.7	82.6	723.0	50.0	55.1	65.5	65.2
1852	62.1	78.3	689.9	59.0	58.0	67.3	60.9
1853	67.1	78.3	729.2	56.4	55.1	69.0	63.0
1854	79.5	78.3	797.6	65.4	71.0	92.0	80.4
1855	77.0	69.6	815.2	75.6	78.2	115.9	104.2
1856	64.6	69.6	775.3	75.6	78.2	101.8	95.7
1857	79.5	95.7	812.3	96.2	84.0	94.7	91.3
1858	101.9	104.3	836.4	112.8	111.6	103.5	97.8
1859	77.6	82.6	770.9	92.3	86.9	93.8	84.8
1860	92.6	91.3	793.1	98.7	91.3	100.0	97.8
1861	100.0	100.0	800.0	100.0	100.0	100.0	100.0
1862	96.9	87.0	842.7	87.2	86.9	96.5	97.8
1863	101.9	91.3	1,175.0	80.8	84.0	84.1	93.5
1864	112.5	91.3	1,452.4	70.5	84.0	77.9	80.4
1865	136.1	95.7	1,587.8	69.2	81.2	74.3	73.9
1866	128.0	117.4	1,275.9	65.4	81.2	79.6	80.4
1867	116.8	121.7	1,219.7	64.1	84.0	81.4	91.3
1868	93.8	117.4	1,024.9	64.1	81.2	78.8	89.1
1869	87.0	108.7	994.9	70.5	84.0	82.3	87.0
1870	90.1	113.0	1,033.4	69.2	84.0	82.3	89.1
1871	83.2	121.7	992.2	71.8	84.0	78.8	84.8
1872	106.2	117.4	948.6	79.5	86.9	80.5	82.6
1873	127.4	113.0	1,019.4	92.3	101.4	82.3	84.8
1874	121.8	94.6	936.5	98.7	105.8	77.0	82.6
1875	103.1	73.9	840.1	94.9	101.4	73.5	78.3
1876	98.1	68.5	794.9	88.5	100.0	81.4	78.3
1877	86.3	91.3	770.3	74.4	97.1	80.5	82.6
1878	80.8	87.0	768.1	83.3	92.7	75.2	87.0
1879	74.5	71.7	709.5	78.2	85.5	67.3	82.6
1880	62.1	69.6	676.7	75.6	84.0	65.5	73.9
1881	75.1	65.2	734.8	85.9	89.8	68.1	69.6
1882	61.5	68.5	705.6	82.1	88.3	70.8	69.6
1883	55.9	68.5	679.9	82.1	86.9	85.0	76.1
1884	49.7	68.5	647.0	82.1	86.9	82.3	89.1
1885	49.7	63.0	629.5	82.1	86.9	74.8	78.3
1886	49.1	55.4	606.6	78.2	86.9	60.6	65.2
1887	49.7	59.8	573.4	70.5	86.9	50.4	52.2
1888	52.8	63.0	594.9	71.8	86.9	48.7	47.8
1889	51.6	56.5	594.3	59.6	81.2	56.6	47.8
1890	54.7	58.7	652.8	57.7	78.2	57.5	54.3
1891	54.7	60.9	611.8	57.7	75.4	56.6	58.7
1891	48.5	56.5	544.1	54.5	75.4	59.7	56.5

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891—Continued.*

[1860=100.]

Year.	48. Oil, olive.	49. Oil, linseed.	50. Linseed.	Average of 49 and 50.	53. Nitrate of soda.	54. Indigo, Bengal, good con- suming.	55 and 56. Timber, average of hewn, aver- age im- port, and sawn or split, aver- age im- port.
1846	69.0	86.2	87.3	86.8	105.1	59.0	110.3
1847	81.0	89.7	89.1	89.4	94.9	47.4	110.3
1848	74.1	79.3	78.2	78.8	88.1	47.4	80.9
1849	70.7	93.1	76.4	84.8	81.3	55.1	88.2
1850	74.1	110.3	80.0	95.2	98.3	82.0	80.9
1851	69.0	106.9	87.3	97.1	96.6	57.7	88.2
1852	82.8	96.6	83.6	90.1	100.0	75.6	110.3
1853	110.3	103.4	89.1	96.3	122.0	74.4	117.6
1854	94.8	124.1	112.7	168.4	115.2	71.8	118.4
1855	93.1	137.9	123.6	130.8	116.9	82.0	114.7
1856	89.7	124.1	109.1	116.6	118.6	88.5	105.1
1857	96.6	131.0	116.4	123.7	139.0	100.0	91.9
1858	79.3	106.9	98.2	102.6	115.2	100.0	83.1
1859	84.5	100.0	92.7	96.4	110.2	100.0	92.6
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	98.3	106.9	107.3	107.1	91.5	132.0	98.5
1862	96.6	134.5	116.4	125.5	94.9	111.5	98.5
1863	94.8	148.3	116.4	132.4	98.3	96.1	94.9
1864	98.3	124.1	116.4	120.3	106.8	89.7	94.9
1865	87.9	117.2	120.0	118.6	96.6	100.0	91.9
1866	98.3	131.0	109.1	120.1	84.7	105.1	85.3
1867	106.9	127.6	123.6	125.6	81.3	114.1	80.9
1868	113.8	110.3	114.5	112.4	91.5	128.2	82.4
1869	89.7	103.4	110.9	107.2	106.8	132.0	85.3
1870	87.9	106.9	110.9	108.9	110.2	123.1	86.0
1871	84.5	113.8	112.7	113.3	110.2	138.4	75.0
1872	82.8	117.2	114.5	115.9	108.5	103.8	78.7
1873	74.1	110.3	112.7	111.5	105.1	102.6	93.4
1874	72.4	93.1	107.3	100.2	83.0	107.7	94.9
1875	74.1	82.8	98.2	90.5	83.0	88.5	83.1
1876	79.3	82.8	92.7	87.8	78.0	101.3	83.8
1877	84.5	96.6	98.2	97.4	94.9	84.6	83.8
1878	84.5	89.7	89.1	89.4	101.7	84.6	72.8
1879	79.3	93.1	94.5	93.8	101.7	96.1	62.5
1880	70.7	93.1	98.2	95.7	105.1	111.5	74.3
1881	65.5	89.7	90.9	90.3	98.3	103.8	74.3
1882	63.8	79.3	80.0	79.7	89.8	100.0	76.5
1883	62.1	69.0	76.4	72.7	76.3	96.1	73.5
1884	69.0	69.0	78.2	73.6	64.4	92.3	69.1
1885	67.2	75.9	80.0	78.0	71.2	80.8	68.4
1886	65.5	70.7	76.4	73.6	67.8	76.9	63.2
1887	58.6	70.7	69.1	69.9	64.4	73.1	58.8
1888	62.1	63.8	70.9	67.4	67.8	73.1	62.5
1889	60.3	69.0	76.4	72.7	64.4	69.2	70.6
1890	70.7	79.3	78.2	78.8	57.6	65.4	66.2
1891	74.1	72.4	76.4	74.4	59.3	73.1	61.0

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891—Concluded.*

[1860=100.]

Year.	Total of sundry materials.	Total of all articles.	Average of vegeta- ble food.	Average of animal food.	Average of coffee, tea, and sugar.	Average, minerals.	Average of textile materials.	Average of sundry materials.	Average of all articles.
1846	708.2	3,964.6	106.8	88.9	92.2	98.1	90.5	78.7	92.2
1847	707.5	4,208.2	130.8	97.0	81.6	100.5	93.3	78.6	97.9
1848	629.4	3,437.1	92.7	91.7	64.8	82.3	73.7	69.9	79.9
1849	621.2	3,286.2	80.2	78.5	73.1	80.4	77.4	69.0	76.4
1850	666.3	3,396.2	75.0	73.5	82.4	80.4	90.4	74.0	79.0
1851	653.8	3,314.6	73.1	75.2	79.2	77.6	86.2	72.6	77.1
1852	702.3	3,473.6	80.4	75.7	71.3	83.4	91.2	78.0	80.8
1853	829.4	4,168.4	101.6	91.1	82.0	109.0	99.7	92.2	96.9
1854	942.6	4,567.2	121.5	96.2	79.9	120.7	101.9	104.7	106.2
1855	888.8	4,434.8	120.7	96.3	84.2	113.5	96.9	98.8	103.1
1856	884.7	4,420.8	109.9	97.0	92.1	113.9	101.5	98.3	102.8
1857	976.9	4,596.3	105.7	98.0	117.1	111.8	105.6	108.5	106.9
1858	838.0	4,012.0	87.8	91.8	91.1	99.1	96.4	93.1	93.3
1859	871.5	4,094.0	86.2	94.0	95.1	100.2	99.1	96.8	95.2
1860	900.0	4,300.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	895.8	4,284.7	103.1	99.9	90.4	94.4	105.3	99.5	99.6
1862	869.1	4,537.1	99.3	95.3	93.4	93.9	146.9	96.6	105.5
1863	829.3	4,698.8	88.1	94.3	94.2	96.5	181.6	92.1	109.3
1864	808.6	4,830.3	79.7	98.3	100.9	100.7	198.5	89.8	112.3
1865	801.6	4,549.3	84.6	107.4	92.3	96.3	159.5	89.1	105.8
1866	814.3	4,578.8	96.2	106.2	89.3	96.3	152.5	90.5	106.5
1867	822.0	4,466.2	115.8	98.1	89.9	92.4	128.1	91.3	103.9
1868	852.0	4,432.9	114.6	97.1	89.9	90.0	128.4	94.7	103.1
1869	845.6	4,383.2	92.1	105.8	92.7	93.7	129.2	94.0	101.9
1870	835.5	4,311.7	88.8	108.0	89.6	94.2	124.0	92.8	100.3
1871	850.9	4,411.1	96.0	111.2	94.6	98.0	118.6	94.5	102.6
1872	850.5	4,835.5	102.3	112.5	100.0	137.1	127.4	94.5	112.5
1873	850.8	5,012.2	109.2	120.6	103.3	156.3	117.1	94.5	116.6
1874	806.3	4,599.9	106.5	114.0	102.7	127.5	105.0	89.6	107.0
1875	767.4	4,311.7	94.2	119.8	97.3	109.7	99.4	85.3	100.3
1876	764.8	4,193.5	94.1	120.0	96.6	97.0	96.3	85.0	97.5
1877	783.4	4,186.2	101.5	112.4	101.0	90.3	96.0	87.0	97.4
1878	741.6	3,923.6	97.0	111.4	88.9	79.5	88.7	83.0	91.2
1879	732.4	3,730.1	88.6	103.6	85.2	78.1	84.6	81.4	86.7
1880	770.7	3,947.6	90.7	111.8	86.3	84.1	91.9	85.6	91.8
1881	743.0	3,807.1	85.0	112.0	81.8	81.0	88.2	82.6	88.5
1882	739.9	3,785.9	85.1	114.8	73.9	83.6	85.0	82.2	88.0
1883	721.1	3,699.3	83.3	114.5	75.3	80.4	80.9	80.1	86.0
1884	690.5	3,408.6	72.7	107.3	61.4	72.9	78.7	76.7	79.3
1885	656.5	3,242.3	69.6	97.8	60.4	71.0	75.8	72.9	75.4
1886	607.0	3,111.9	66.2	96.3	58.4	70.6	71.7	67.4	72.4
1887	580.0	3,038.7	65.5	87.0	55.2	72.9	74.4	64.4	70.7
1888	578.1	3,176.8	68.2	91.2	64.9	80.1	74.3	64.2	73.9
1889	584.9	3,299.6	65.7	95.2	75.6	81.1	81.6	65.0	76.7
1890	587.1	3,267.4	66.6	91.1	71.7	87.4	76.5	65.2	76.0
1891	588.1	3,241.3	76.6	89.5	72.0	83.1	68.0	65.3	75.4

In the foregoing table we have been able, with two exceptions, to reproduce exactly Mr. Sauerbeck's figures, based upon 1860 instead of the base line used by him.

Petroleum and soda crystals disappear altogether, but without materially affecting the general result.

It is, therefore, substantially the same table, and we may compare it with the figures for the United States based on 1860 prices. A simple average of 43 quotations would show the same result as an average of 223 if all moved in the same direction, and the difference in number should not deter us from examining into the difference between Mr. Sauerbeck's results and our own. If we consider Mr. Sauerbeck's group figures we shall notice considerable similarity in all the relative prices for 1891. They are:

Food	80.4
Minerals	83.1
Textile materials	68.0
Sundry materials	65.3

The decline is general, and ranges from 16.9 per cent to 34.7 per cent. The one group in our calculations which we can compare directly with Mr. Sauerbeck's figures is food. It stood in 1891 at 103.9. While our grouping is a different one, it is marked with greater variety in the relative price. The fact that food has risen in price in the United States and fallen in England, by these tables, would account sufficiently for the discrepancy in the results.

If we turn now to the other result of our own calculations, to which attention has been called—that is, 94.4 as the relative price of 1891—we have additional reasons why an agreement is not to be expected. The grouping becomes a different one. The influence of various groups in the total is as follows:

TABLE 65.—*Comparison of Mr. Sauerbeck's average with weighted average of the United States.*

Group.	Percent of Sauerbeck's total.	Percent of 68.60 per cent of total expenditure.
Meat.....	13.6	17.5
Other food.....	29.6	42.2
Total food.....	43.2	59.7
Clothing.....	22.7	22.3
Fuel.....	4.5	7.3
All other.....	29.6	10.7
	100.0	100.0

These differences must of course have their effect upon the general result. A method of comparison which will effectually demonstrate whether the difference in the results is due to differences in the methods or in the prices would be to obtain an average for the United States for the same 44 articles as figure in Mr. Sauerbeck's table. This is unfortunately impossible in an absolute sense. Certain articles are missing in the list of prices here, but we may substitute the articles which are most nearly equivalent. Such a calculation shows a relative price in 1891 of 84.8 in the United States as against 75.4 in England, both comparisons comprising the same articles and being made with the year 1860.

It is apparent, therefore, that there is a difference in the two countries and that prices have fallen more rapidly in England than in the United States on the basis adopted by Mr. Sauerbeck. Whether or not his method is adequate for measuring the general level of prices is a totally distinct question.

The answer will depend largely upon what is considered the standard of the general level of prices. If it be the prices ruling in the great wholesale market, then the method of Mr. Sauerbeck is correct, and it is proper to say that the general level of prices in the United States was in 1891 fifteen per cent below that of 1860. If, on the other hand, the general level of prices be taken to mean the prices of all articles affecting the consumer, then this method is insufficient, and it is correct to say that prices had fallen in 1891 in the United States only five and a half per cent below the level of 1860. This was the result of our former calculations, which showed in 1891 a relative price compared with 1860 of 94.4 for that portion of family expenditure directly affected by changes in price.

GERMANY—HAMBURG PRICES.

The most complete price statistics which have been made the subject of economic studies by European writers are those published by the bureau of commercial statistics of Hamburg. The series of prices begins in 1847 and covers more than three hundred articles. The method of ascertaining annual prices gives them a special importance.

All goods imported into Hamburg are reported to the bureau of commercial statistics. These reports contain a statement of the kind of goods and their weight, to which is added their value, calculated by the price of the article upon the day in question on the Hamburg exchange. For goods not quoted on the exchange the invoice value, plus freight, insurance, and other charges, must be given.

The yearly trade statements are made up from these reports. Having the total quantity and total value, the calculation of the average price is a simple arithmetical calculation. But in view of the peculiar circumstances of Hamburg as a free harbor, and of the fact that the declared values are based upon ruling Hamburg prices, the results have a high value quite unusual for import prices.

Calculations upon the basis described have been made since 1847. Prior to that time there was no such statistical organization. Nor can the necessary materials be found for carrying these calculations further into the past.

The figures which were thus obtained were made the basis of important studies by the late Dr. Soetbeer and others. Their work can be readily continued down to 1888.

After that date there are many difficulties arising from the fact that in 1888 Hamburg became a part of the German customs union. Before 1888 all goods which entered Hamburg, whether by sea or river, by rail or by wagon, found a place in the statistics. Thus all goods not produced in Hamburg, and these were not numerous, were represented.

But in 1888 all this was changed. Goods arriving otherwise than by sea were no longer subject to inspection and supervision. Hence all prices must now be confined exclusively to such articles as are imported by sea. For those articles which were in the past entirely or in the main imported in this manner, the continuity of the quotations has not been disturbed. But with goods arriving in large quantities by land the comparability of the figures has been lost.

To restore in a measure the comparability of the figures, the director of the bureau has undertaken the very arduous task of overhauling all the old records of his department, and has distinguished the importations by sea from all other importations. On this basis he has obtained the prices by sea importations of a large number of articles since 1850. These valuable figures have been very courteously transmitted to me in manuscript, they not having been published in Germany. They follow this report as Exhibit A. It would have been desirable to enter into an analysis of these figures, but, unfortunately, the limited time at our disposal has prevented such an undertaking.

The distinguished Dr. Adolf Soetbeer published in 1886 a remarkable study of the Hamburg prices. He selected from the publications of the Hamburg bureau nearly one hundred leading articles. To these he added several articles, such as potatoes, meat, etc., whose prices were obtained from the records of hospitals and other institutions of Hamburg. In order that manufactures might not be neglected, he introduced fourteen articles of British export. This brought his total up to one hundred and fourteen, and taking the years 1847–1850 as a basis of one hundred, he constructed relative prices, which he carried down to 1885.

It was our purpose to continue these figures, if possible, down to the present time. We are enabled to do so through the kindly assistance of Mr. Heinz, the director of the bureau of commercial statistics in Hamburg.

Attention has already been called to the changes in the methods of the statistics since 1888, which rendered the continuation of Dr. Soetbeer's tables very difficult. In his letter Mr. Heinz says:

Prof. Soetbeer made a most urgent request that if in any way it were practicable or possible, I should continue by means of subsidiary material or expert estimates, the former average prices from 1847 to 1888, as they had been published in his *Materialien*, including the importations by land and river, and so to preserve the continuity of these researches, which was so much to be desired. After overcoming many earnest scruples in the matter, I at length determined that I ought to accede to the repeated requests which were made to me in this particular.

By using the market reports and all other available information which his ripe experience offered, Mr. Heinz prepared a continuation of the Soetbeer tables until the year 1891. The Hamburg prices followed by Dr. Soetbeer's calculations are given in Tables 66 to 70.(a)

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures.*

PRODUCTS OF AGRICULTURE.

Year.	1. Wheat.		2. Wheat flour.		3. Rye.		4. Rye flour.		5. Oats.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1851.....	16.62	\$1.077	25.02	\$0.027	13.80	\$0.834	16.62	\$0.018	14.40	\$0.497
1852.....	17.40	1.127	27.42	.030	14.40	.871	20.77	.022	13.62	.471
1853.....	21.06	1.364	32.82	.035	16.56	1.001	22.32	.024	15.54	.537
1854.....	30.18	1.955	41.28	.045	21.48	1.299	27.42	.030	18.00	.622
1855.....	31.20	2.021	45.18	.049	23.28	1.407	30.48	.033	17.28	.597
1856.....	29.28	1.897	42.00	.045	21.54	1.302	28.62	.031	16.68	.576
1857.....	22.50	1.457	33.30	.036	15.36	.929	27.24	.029	15.42	.533
1858.....	18.48	1.197	28.56	.031	13.68	.827	22.80	.025	14.40	.497
1859.....	19.68	1.275	27.48	.030	14.04	.849	21.96	.024	14.34	.495
1860.....	23.04	1.492	32.46	.035	15.90	.961	21.42	.023	15.06	.520
1861.....	24.60	1.593	34.92	.038	15.66	.947	23.88	.026	14.64	.506
1862.....	23.10	1.496	31.56	.034	16.98	1.027	22.92	.025	13.68	.473
1863.....	19.92	1.290	26.88	.029	15.30	.925	19.08	.021	11.64	.402
1864.....	16.68	1.080	24.60	.027	12.18	.736	16.38	.018	13.20	.456
1865.....	17.28	1.119	25.50	.028	13.62	.823	17.88	.019	15.42	.533
1866.....	20.34	1.318	29.28	.032	15.42	.932	21.96	.024	15.72	.543
1867.....	28.44	1.842	34.98	.038	21.30	1.288	26.34	.028	17.10	.591
1868.....	27.30	1.768	33.12	.036	20.94	1.266	25.98	.028	18.30	.632
1869.....	20.88	1.352	30.06	.032	17.58	1.063	21.06	.023	17.52	.605
1870.....	20.10	1.302	29.76	.032	15.66	.947	21.72	.023	14.54	.502
1871.....	23.96	1.552	31.90	.034	18.70	1.131	21.32	.023	15.58	.538
1872.....	24.92	1.614	34.42	.037	15.82	.956	22.94	.025	15.02	.519
1873.....	25.94	1.680	36.52	.039	18.16	1.098	25.16	.027	16.50	.570
1874.....	23.32	1.511	34.56	.037	18.48	1.117	25.26	.027	18.48	.638
1875.....	20.50	1.328	28.38	.031	16.64	1.006	22.70	.025	17.68	.611
1876.....	21.24	1.376	29.62	.032	17.20	1.040	24.06	.026	17.44	.602
1877.....	24.32	1.575	31.54	.034	17.72	1.071	23.94	.026	16.88	.583
1878.....	21.42	1.387	31.34	.034	14.32	.866	22.26	.024	14.41	.498
1879.....	21.36	1.384	31.46	.034	14.50	.877	21.50	.023	14.06	.486
1880.....	21.74	1.408	31.67	.034	18.37	1.111	25.33	.027	14.85	.513
1881.....	22.21	1.439	33.32	.036	19.76	1.195	25.66	.028	15.75	.544
1882.....	20.43	1.323	32.03	.035	16.07	.972	21.09	.023	15.52	.536
1883.....	18.66	1.209	28.87	.031	14.48	.875	17.97	.019	13.74	.475
1884.....	16.78	1.087	24.50	.026	13.97	.845	18.02	.019	13.74	.475
1885.....	15.33	.933	22.67	.024	12.21	.738	16.82	.018	13.79	.476
1886.....	15.06	.976	21.10	.023	11.05	.668	15.34	.017	13.06	.451
1887.....	15.03	.974	20.69	.022	11.06	.669	14.24	.015	11.01	.380
1888.....	15.59	1.010	21.29	.023	11.76	.711	12.35	.013	10.15	.351
1889.....	14.34	.929	20.25	.022	10.83	.655	15.01	.016	11.92	.412
1890.....	14.86	.963	21.22	.023	12.72	.769	17.00	.018	12.89	.445
1891.....	18.85	1.221	24.20	.026	17.31	1.046	22.50	.024	13.80	.477

a These tables as originally prepared to 1885, inclusive, are to be found in *Consular Report*, December 1887.

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

PRODUCTS OF AGRICULTURE—Continued.

Year.	6. Barley.		7. Malt.		8. Buckwheat.		9. Pease.		10. Beans.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1851.....	12.00	\$0.622	14.22	\$0.015	10.20	\$0.011	11.58	\$0.800	26.58	\$1.722
1852.....	15.18	.787	22.20	.024	14.58	.016	13.20	.912	26.40	1.710
1853.....	14.82	.768	21.36	.023	19.48	.021	17.46	1.206	32.34	2.095
1854.....	18.78	.973	22.32	.024	18.84	.020	18.84	1.302	27.90	1.807
1855.....	18.24	.945	29.28	.032	18.66	.020	18.78	1.298	33.18	2.149
1856.....	19.62	1.017	30.18	.033	18.60	.020	14.10	.974	27.24	1.764
1857.....	17.70	.917	27.54	.030	17.04	.018	18.00	1.244	22.92	1.485
1858.....	14.82	.768	25.02	.027	15.06	.016	17.82	1.231	24.00	1.555
1859.....	15.96	.827	21.24	.023	12.72	.014	17.40	1.202	24.54	1.590
1860.....	16.98	.880	21.60	.023	15.18	.016	17.82	1.231	25.20	1.632
1861.....	16.98	.880	24.54	.026	15.66	.017	17.64	1.219	25.26	1.636
1862.....	16.32	.846	22.68	.024	14.80	.016	17.88	1.235	24.48	1.586
1863.....	15.24	.790	22.38	.024	13.44	.015	14.40	.995	21.84	1.415
1864.....	13.32	.690	19.74	.021	13.80	.015	12.90	.891	23.16	1.500
1865.....	15.78	.818	18.72	.020	13.92	.015	15.06	1.041	26.76	1.733
1866.....	18.90	.979	28.08	.030	14.82	.016	17.64	1.219	25.92	1.679
1867.....	19.92	1.032	29.52	.032	15.72	.017	18.72	1.293	25.56	1.656
1868.....	21.16	1.096	27.36	.030	18.48	.020	20.58	1.422	27.18	1.761
1869.....	20.52	1.063	26.46	.029	17.94	.019	18.72	1.293	24.12	1.562
1870.....	16.20	.839	23.40	.025	16.56	.018	17.40	1.202	27.36	1.772
1871.....	18.34	.950	24.04	.026	15.98	.017	18.26	1.262	24.38	1.579
1872.....	21.90	1.135	26.58	.029	16.14	.017	18.96	1.310	24.82	1.608
1873.....	22.82	1.183	28.64	.031	17.68	.019	22.26	1.538	38.80	2.513
1874.....	22.14	1.147	32.60	.035	17.76	.019	21.12	1.459	26.74	1.732
1875.....	21.84	1.132	30.00	.032	17.04	.018	20.68	1.429	23.76	1.539
1876.....	19.50	1.010	29.24	.032	19.42	.021	20.80	1.437	23.00	1.490
1877.....	20.94	1.085	29.82	.032	17.86	.019	20.12	1.390	25.36	1.643
1878.....	20.18	1.046	29.90	.032	16.18	.017	19.08	1.318	22.32	1.446
1879.....	21.90	1.135	28.42	.031	17.28	.019	19.34	1.336	24.30	1.574
1880.....	21.18	1.098	30.52	.033	18.48	.020	20.06	1.286	26.53	1.718
1881.....	20.89	1.083	29.84	.032	16.47	.018	20.89	1.443	26.12	1.692
1882.....	19.90	1.031	28.88	.031	17.16	.018	21.10	1.458	24.81	1.607
1883.....	17.37	.900	28.82	.031	21.80	.024	18.42	1.273	25.19	1.632
1884.....	16.13	.836	29.45	.032	15.32	.017	18.43	1.273	24.67	1.598
1885.....	14.29	.740	27.72	.030	16.27	.018	17.68	1.222	23.62	1.530
1886.....	15.57	.807	26.51	.029	13.78	.015	15.05	1.040	20.04	1.298
1887.....	13.03	.675	27.02	.029	11.60	.013	15.06	1.041	20.52	1.329
1888.....	14.71	.762	24.78	.027	11.97	.013	15.62	1.079	20.94	1.356
1889.....	14.15	.733	26.95	.029	12.68	.014	15.05	1.040	20.89	1.353
1890.....	13.84	.717	28.00	.030	12.39	.013	14.59	1.008	22.06	1.429
1891.....	14.47	.750	29.99	.032	15.44	.017	16.81	1.161	21.54	1.395

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

PRODUCTS OF AGRICULTURE—Continued.

Year.	11. Potatoes.		12. Hops.		13. Clover seed.		14. Rape-seed.		15. Rape-seed oil.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	4.56	\$0.295	134.40	\$0.145	73.68	\$4.773	22.02	\$0.024	63.42	\$0.068
1852.....	4.96	.321	151.20	.163	86.70	5.616	23.82	.026	66.60	.072
1853.....	6.47	.419	196.08	.212	97.14	6.292	28.68	.031	68.16	.074
1854.....	6.92	.448	282.12	.305	109.32	7.081	29.58	.032	83.82	.090
1855.....	7.16	.464	216.54	.234	112.47	7.285	43.02	.046	106.86	.115
1856.....	7.27	.471	125.82	.136	125.10	8.103	36.54	.039	95.58	.103
1857.....	5.30	.343	129.78	.140	116.49	7.546	33.18	.036	96.30	.104
1858.....	3.69	.239	119.16	.129	110.58	7.163	32.34	.035	80.04	.086
1859.....	4.16	.269	166.26	.179	119.67	7.752	26.64	.029	71.58	.077
1860.....	6.11	.396	298.32	.322	109.41	7.087	29.52	.032	79.80	.086
1861.....	7.62	.494	198.90	.215	104.40	6.762	30.42	.033	76.44	.083
1862.....	4.85	.314	153.54	.166	98.88	6.405	35.22	.038	89.88	.097
1863.....	4.79	.310	203.10	.219	95.52	6.187	31.20	.034	85.14	.092
1864.....	5.19	.336	232.80	.251	93.72	6.071	31.62	.034	79.38	.086
1865.....	5.25	.340	253.44	.274	133.32	8.636	33.60	.036	83.28	.090
1866.....	5.54	.359	326.76	.353	127.56	8.263	30.18	.033	84.66	.091
1867.....	7.04	.456	261.72	.283	145.80	9.444	29.82	.032	72.36	.078
1868.....	5.94	.385	185.10	.200	115.40	7.475	27.42	.030	66.00	.071
1869.....	5.65	.366	164.40	.177	98.88	6.405	31.32	.034	69.48	.075
1870.....	5.62	.364	186.48	.201	115.56	7.485	34.86	.038	89.10	.096
1871.....	6.30	.408	288.00	.311	131.54	8.520	36.74	.040	80.68	.087
1872.....	6.60	.428	280.98	.303	122.74	7.950	31.78	.034	74.82	.081
1873.....	6.59	.427	283.24	.306	102.34	6.629	28.04	.030	63.84	.069
1874.....	7.15	.463	382.14	.413	108.20	7.009	25.60	.028	66.26	.072
1875.....	6.65	.431	289.06	.312	112.64	7.296	29.06	.031	65.64	.071
1876.....	6.72	.435	278.22	.300	136.80	8.861	31.22	.034	68.58	.074
1877.....	7.70	.499	252.94	.273	139.40	9.030	33.12	.036	74.50	.080
1878.....	7.46	.483	195.54	.211	111.64	7.231	29.32	.032	67.74	.073
1879.....	7.90	.512	240.88	.260	102.54	6.642	26.54	.029	59.46	.064
1880.....	7.78	.504	234.72	.253	105.95	6.863	23.96	.026	57.40	.062
1881.....	6.25	.405	229.41	.248	99.04	6.415	27.94	.030	58.62	.063
1882.....	5.06	.328	370.50	.400	103.64	6.713	29.52	.032	58.13	.063
1883.....	6.15	.398	464.23	.501	130.77	8.471	30.85	.033	71.58	.077
1884.....	5.64	.365	312.77	.338	113.38	7.344	24.81	.027	64.27	.069
1885.....	5.47	.354	218.11	.235	101.43	6.570	23.39	.025	54.09	.058
1886.....	5.45	.353	191.49	.207	95.13	6.162	24.36	.026	48.24	.052
1887.....	5.40	.350	177.99	.192	89.56	5.801	22.34	.024	50.77	.055
1888.....	6.77	.439	187.79	.203	88.79	5.751	23.91	.026	50.38	.054
1889.....	6.50	.421	184.94	.200	93.82	6.077	25.10	.027	52.10	.056
1890.....	6.85	.444	240.03	.259	83.56	5.413	25.64	.028	58.08	.063
1891.....	8.71	.564	240.00	.259	92.72	6.006	25.16	.027	53.10	.057

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

PRODUCTS OF AGRICULTURE—Concluded.

Year.	16. Linseed oil.		17. Oil cake.		18. Raw sugar.		19. Refined sugar.		20. Spirits from grain or potatoes.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per hectoliter.	Per gallon.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	66.42	\$0.072	8.22	\$0.009	42.60	\$0.046	52.02	\$0.056	32.35	\$0.291
1852.....	60.42	.065	9.00	.010	40.38	.044	50.82	.054	45.10	.406
1853.....	61.56	.066	10.68	.012	46.44	.050	56.82	.061	52.51	.473
1854.....	75.60	.082	12.06	.013	47.52	.051	55.56	.060	72.00	.649
1855.....	80.10	.086	13.86	.015	49.74	.054	66.54	.072	70.25	.633
1856.....	78.42	.085	13.08	.014	64.14	.069	77.34	.083	66.70	.601
1857.....	79.80	.086	13.14	.014	72.54	.078	89.10	.096	54.26	.489
1858.....	64.38	.070	13.32	.014	53.04	.057	73.68	.080	35.37	.319
1859.....	59.88	.065	11.82	.013	52.02	.056	70.02	.076	39.47	.356
1860.....	59.58	.064	10.68	.012	53.82	.058	67.68	.073	46.52	.419
1861.....	65.10	.070	10.62	.011	44.58	.049	67.14	.072	51.04	.460
1862.....	79.20	.086	13.26	.014	44.40	.048	63.72	.068	44.33	.399
1863.....	86.22	.093	12.84	.014	44.04	.048	62.64	.068	39.31	.354
1864.....	76.32	.082	11.40	.012	54.48	.059	72.12	.078	39.37	.355
1865.....	70.44	.076	15.12	.016	45.36	.049	61.74	.067	35.58	.321
1866.....	80.16	.087	12.60	.014	43.50	.047	63.12	.068	36.66	.330
1867.....	77.04	.083	12.60	.014	44.04	.048	63.48	.069	47.67	.429
1868.....	69.18	.075	15.90	.017	47.28	.051	67.14	.072	48.98	.441
1869.....	64.62	.070	15.78	.017	54.72	.059	71.76	.077	45.12	.407
1870.....	66.66	.072	16.32	.013	51.96	.056	68.82	.074	39.54	.356
1871.....	70.10	.076	15.10	.016	72.98	.079	74.40	.080	43.12	.388
1872.....	72.22	.078	17.36	.019	53.00	.057	75.86	.082	43.92	.396
1873.....	69.96	.076	15.08	.016	51.24	.055	70.38	.076	46.52	.419
1874.....	63.28	.068	14.82	.016	50.36	.054	64.98	.070	46.65	.420
1875.....	53.80	.058	16.08	.017	46.30	.050	62.06	.067	36.23	.326
1876.....	56.16	.061	16.28	.018	47.88	.052	61.14	.066	34.87	.314
1877.....	61.60	.066	16.06	.017	56.38	.061	68.98	.074	38.30	.345
1878.....	59.10	.064	16.94	.018	55.58	.060	61.30	.066	39.55	.356
1879.....	57.84	.062	15.46	.017	51.24	.055	57.56	.062	40.37	.364
1880.....	60.05	.065	15.06	.016	51.21	.055	60.33	.065	46.05	.415
1881.....	58.06	.063	15.53	.017	50.57	.055	59.50	.064	46.97	.423
1882.....	54.81	.059	14.94	.016	49.37	.053	58.02	.063	39.20	.353
1883.....	49.93	.054	13.98	.015	46.57	.050	55.85	.060	41.57	.375
1884.....	46.01	.050	13.25	.014	36.66	.040	46.79	.055	37.62	.339
1885.....	49.55	.053	12.22	.013	26.59	.029	38.82	.042	33.23	.299
1886.....	44.89	.048	10.98	.012	24.04	.026	37.33	.040	24.07	.217
1887.....	43.34	.047	11.28	.012	25.20	.027	32.93	.036	23.52	.212
1888.....	39.78	.043	12.01	.013	24.16	.026	37.42	.040	20.52	.185
1889.....	44.11	.048	12.71	.014	33.47	.036	40.50	.044	20.00	.180
1890.....	48.85	.053	12.38	.013	27.85	.030	39.19	.042	23.34	.210
1891.....	48.40	.052	12.57	.014	28.51	.031	38.13	.041	36.38	.328

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

ANIMAL AND FISH PRODUCTS.

Year.	21. Beef.		22. Veal.		23. Mutton.		24. Pork.		25. Milk.		26. Butter.	
	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per liter.	Per pound.	Per kilo.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.		Marks.	
1851.....	0.64	\$0.069	0.70	\$0.076	0.95	\$0.103	0.99	\$0.107	0.067	\$0.015	1.22	\$0.132
1852.....	.58	.063	.64	.069	.95	.103	.99	.107	.067	.015	1.22	.132
1853.....	.62	.067	.72	.078	.95	.103	.99	.107	.067	.015	1.54	.166
1854.....	.65	.070	.74	.080	.95	.103	.99	.107	.067	.015	1.67	.180
1855.....	.79	.085	.86	.093	.95	.103	1.10	.119	.067	.015	1.74	.188
1856.....	.76	.082	.83	.090	.95	.103	1.06	.114	.067	.015	1.93	.208
1857.....	.72	.078	.82	.089	.95	.103	1.01	.109	.067	.015	1.86	.201
1858.....	.72	.078	.82	.089	.95	.103	.96	.104	.067	.015	1.95	.211
1859.....	.65	.070	.74	.080	.95	.103	.90	.097	.067	.015	1.84	.199
1860.....	.62	.067	.72	.078	.95	.103	.94	.101	.067	.015	1.99	.215
1861.....	.69	.074	.74	.080	.95	.103	.94	.101	.06	.014	1.71	.185
1862.....	.79	.085	.82	.089	1.05	.113	1.05	.113	.07	.016	1.66	.179
1863.....	.77	.083	.79	.085	1.06	.114	1.05	.113	.06	.014	1.56	.168
1864.....	.80	.086	.83	.090	1.06	.114	1.05	.113	.06	.014	1.80	.194
1865.....	.88	.095	1.02	.110	.83	.090	1.05	.113	.11	.025	1.95	.211
1866.....	.96	.104	1.04	.112	1.00	.108	.97	.105	.10	.023	1.91	.206
1867.....	1.02	.110	1.04	.112	.99	.107	.93	.100	.10	.023	1.76	.190
1868.....	.98	.106	1.07	.116	1.01	.109	1.01	.109	.11	.025	2.17	.234
1869.....	1.00	.108	1.05	.113	1.05	.113	1.12	.121	.11	.025	2.14	.231
1870.....	1.00	.108	1.02	.110	1.11	.120	1.05	.113	.10	.023	1.88	.203
1871.....	1.08	.117	1.11	.120	1.18	.127	.93	.100	.10	.023	2.04	.220
1872.....	1.10	.119	1.24	.134	1.49	.161	1.07	.116	.12	.027	1.99	.215
1873.....	1.22	.132	1.24	.134	1.08	.117	1.18	.127	.12	.027	2.28	.246
1874.....	1.19	.128	1.38	.149	1.22	.132	1.095	.118	.12	.027	2.59	.280
1875.....	1.17	.126	1.205	.130	1.31	.141	1.17	.126	.14	.032	2.40	.259
1876.....	1.23	.133	1.44	.155	1.52	.164	1.09	.118	.13	.029	2.61	.282
1877.....	1.25	.135	1.52	.164	1.49	.161	1.10	.119	.14	.032	2.34	.253
1878.....	1.245	.134	1.45	.157	1.45	.157	1.02	.110	.14	.032	2.19	.236
1879.....	1.14	.123	1.38	.149	1.40	.151	1.00	.108	.13	.029	2.02	.218
1880.....	1.21	.131	1.41	.152	1.43	.154	1.14	.123	.12	.027	2.32	.250
1881.....	1.09	.118	1.46	.158	1.45	.157	1.24	.134	.12	.027	2.41	.260
1882.....	1.18	.127	1.47	.159	1.51	.163	1.16	.125	.12	.027	2.40	.259
1883.....	1.19	.128	1.51	.163	1.62	.175	1.09	.118	.12	.027	2.30	.248
1884.....	1.16	.125	1.52	.164	1.46	.158	1.01	.109	.12	.027	2.28	.246
1885.....	1.08	.117	1.50	.162	1.32	.142	1.01	.109	.12	.027	2.12	.229
1886.....	1.08	.117	1.49	.161	1.36	.147	1.08	.117	.11	.025	2.01	.217
1887.....	1.04	.112	1.51	.163	1.24	.134	1.03	.111	.10	.023	2.07	.223
1888.....	1.01	.109	1.56	.168	1.29	.139	1.02	.110	.10	.023	2.16	.233
1889.....	1.07	.116	1.48	.160	1.28	.138	1.20	.130	.10	.023	2.37	.256
1890.....	1.13	.122	1.51	.163	1.37	.148	1.27	.137	.11	.025	2.20	.238
1891.....	1.18	.127	1.51	.163	1.26	.136	1.20	.130	.11	.025	2.25	.243

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

ANIMAL AND FISH PRODUCTS—Continued.

Year.	27. Cheese.		28. Tallow.		29. Lard.		30. Hides.		31. Calf skins.		32. Leather.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.		Marks.	
1851.....	78.42	\$0.085	70.20	\$0.076	100.62	\$0.109	89.39	\$0.097	162.60	\$0.176	302.86	\$0.327
1852.....	82.20	.089	78.18	.084	106.38	.115	84.21	.091	139.38	.150	305.96	.330
1853.....	91.92	.099	97.68	.105	115.20	.124	102.66	.111	167.10	.180	264.47	.286
1854.....	101.58	.110	118.20	.128	116.22	.125	109.17	.118	211.44	.228	285.58	.308
1855.....	107.40	.116	108.18	.117	117.00	.126	112.51	.121	203.46	.220	338.17	.365
1856.....	104.52	.113	103.68	.112	121.92	.132	129.02	.139	239.58	.259	371.89	.401
1857.....	108.66	.117	108.60	.117	126.18	.136	173.21	.187	294.06	.317	428.97	.463
1858.....	104.46	.113	95.70	.103	104.76	.113	118.08	.127	207.00	.223	370.11	.400
1859.....	103.50	.112	105.78	.114	103.56	.112	134.79	.146	280.74	.303	414.12	.447
1860.....	107.76	.116	107.22	.116	112.98	.122	143.09	.154	313.08	.338	437.81	.473
1861.....	98.92	.107	102.96	.111	107.16	.116	120.12	.130	239.82	.259	370.22	.400
1862.....	98.10	.106	92.82	.100	88.86	.096	115.62	.125	225.00	.243	405.34	.438
1863.....	108.30	.117	82.14	.089	75.78	.082	103.18	.111	250.32	.270	409.73	.442
1864.....	103.02	.111	78.36	.085	97.56	.105	106.34	.115	275.28	.297	437.41	.472
1865.....	105.48	.114	83.10	.090	134.46	.145	99.60	.108	265.98	.287	429.00	.463
1866.....	111.18	.120	82.38	.089	118.80	.128	99.48	.107	243.30	.263	485.13	.524
1867.....	114.96	.124	92.34	.100	104.10	.112	103.38	.112	250.56	.270	354.31	.382
1868.....	109.02	.118	89.70	.097	124.02	.134	115.80	.125	257.10	.278	293.99	.317
1869.....	115.68	.125	89.40	.097	129.72	.140	105.00	.113	249.00	.269	335.44	.362
1870.....	110.16	.119	88.56	.096	125.16	.135	112.38	.121	249.24	.269	339.13	.366
1871.....	114.20	.123	87.90	.095	102.50	.111	129.96	.140	267.22	.288	315.54	.341
1872.....	128.40	.139	86.50	.093	80.82	.087	151.56	.164	300.16	.324	365.94	.395
1873.....	128.32	.139	84.22	.091	86.52	.093	156.48	.169	298.46	.322	334.28	.361
1874.....	126.84	.137	82.46	.089	105.96	.114	148.72	.161	270.70	.292	390.72	.422
1875.....	127.56	.138	87.02	.094	122.18	.132	136.28	.147	240.56	.260	305.74	.330
1876.....	128.28	.138	87.92	.095	111.80	.121	111.60	.120	193.36	.209	320.14	.346
1877.....	139.04	.150	85.92	.093	97.92	.106	112.94	.122	175.58	.190	300.68	.325
1878.....	123.16	.133	81.70	.088	78.04	.084	104.68	.113	161.00	.174	260.74	.281
1879.....	115.96	.125	70.98	.077	72.74	.079	104.24	.113	175.78	.190	264.30	.285
1880.....	120.25	.130	69.60	.075	84.08	.091	116.90	.126	212.43	.229	301.25	.325
1881.....	122.42	.132	73.83	.080	112.12	.121	119.23	.129	195.65	.211	314.37	.339
1882.....	114.18	.123	87.04	.094	116.72	.126	116.82	.126	196.63	.212	318.37	.344
1883.....	117.74	.127	89.81	.097	98.97	.107	117.14	.126	194.80	.210	360.17	.389
1884.....	114.92	.124	75.88	.082	80.25	.087	117.26	.127	188.64	.204	371.18	.401
1885.....	103.77	.112	69.81	.075	67.95	.073	117.80	.127	190.32	.205	330.26	.357
1886.....	167.50	.181	56.90	.061	64.39	.070	106.89	.115	180.43	.195	336.53	.363
1887.....	172.50	.186	55.98	.060	69.64	.075	103.69	.112	162.67	.176	330.34	.357
1888.....	180.00	.194	52.86	.057	85.34	.092	93.58	.101	147.83	.160	307.15	.332
1889.....	197.50	.213	62.26	.067	76.49	.083	90.81	.098	127.01	.137	339.61	.367
1890.....	183.33	.198	55.93	.060	67.71	.073	86.89	.094	138.58	.150	358.35	.387
1891.....	187.50	.202	55.90	.060	66.45	.072	86.38	.093	135.30	.146	342.33	.370

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

ANIMAL AND FISH PRODUCTS—Continued.

Year.	32. Horsehair.		34. Bristles.		35. Feathers.		36. Bone.		37. Ox horns.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1851.....	376.20	\$0.406	412.62	\$0.445	174.18	\$0.188	8.40	\$0.009	51.42	\$0.056
1852.....	291.60	.315	426.00	.460	185.22	.200	8.58	.009	55.80	.060
1853.....	377.70	.408	494.82	.534	186.54	.201	9.24	.010	57.24	.062
1854.....	338.88	.366	625.56	.675	168.24	.182	9.54	.010	52.26	.056
1855.....	263.88	.285	485.16	.524	188.76	.204	10.86	.012	42.72	.046
1856.....	417.48	.451	422.16	.456	184.02	.199	10.68	.012	47.04	.051
1857.....	457.38	.494	484.86	.523	180.00	.194	11.22	.012	58.92	.064
1858.....	387.84	.419	443.04	.478	175.26	.189	10.38	.011	69.84	.075
1859.....	416.64	.450	448.50	.484	178.32	.193	10.74	.012	72.42	.078
1860.....	400.80	.433	634.02	.684	164.28	.177	9.18	.010	82.26	.089
1861.....	340.38	.367	475.50	.513	165.72	.179	9.54	.010	70.62	.076
1862.....	338.22	.365	466.62	.504	175.08	.189	9.54	.010	64.80	.070
1863.....	346.14	.374	372.06	.402	165.30	.178	9.84	.011	64.44	.070
1864.....	321.90	.348	532.92	.575	156.54	.169	9.66	.010	59.52	.064
1865.....	303.00	.327	503.64	.544	172.44	.186	9.54	.010	68.70	.074
1866.....	272.10	.294	555.18	.599	174.18	.188	9.96	.011	71.10	.077
1867.....	344.10	.371	501.06	.541	168.48	.182	10.14	.011	83.22	.090
1868.....	372.84	.403	423.48	.457	178.32	.193	9.06	.010	70.74	.076
1869.....	439.50	.474	442.50	.478	185.82	.200	11.76	.013	96.08	.104
1870.....	414.06	.447	549.90	.594	217.14	.234	12.36	.013	73.20	.079
1871.....	546.46	.590	565.10	.610	211.56	.228	12.02	.013	69.24	.075
1872.....	451.92	.488	730.92	.789	216.72	.234	13.04	.014	84.22	.091
1873.....	427.26	.461	819.90	.885	245.52	.265	12.78	.014	64.64	.070
1874.....	363.92	.393	725.42	.783	245.10	.265	14.06	.015	74.94	.081
1875.....	400.62	.432	734.14	.793	298.36	.322	15.50	.017	84.14	.091
1876.....	317.34	.343	767.10	.828	266.10	.287	13.48	.015	82.80	.089
1877.....	271.42	.293	730.12	.788	212.32	.229	12.80	.014	98.02	.106
1878.....	261.26	.282	643.28	.694	190.32	.205	12.14	.013	78.62	.085
1879.....	248.36	.268	704.28	.760	210.14	.227	10.22	.011	77.90	.084
1880.....	290.00	.313	770.40	.832	191.51	.207	11.26	.012	118.88	.128
1881.....	266.74	.288	762.94	.824	185.96	.201	11.35	.012	116.84	.126
1882.....	330.41	.357	810.52	.875	162.03	.175	12.81	.014	105.63	.114
1883.....	367.85	.397	824.99	.891	178.74	.193	13.58	.015	86.36	.093
1884.....	374.70	.405	852.21	.920	173.79	.188	12.36	.013	86.87	.094
1885.....	346.27	.374	748.59	.808	161.61	.174	10.21	.011	85.58	.092
1886.....	295.23	.319	718.18	.775	157.13	.170	8.49	.009	89.99	.097
1887.....	308.61	.333	768.35	.829	157.73	.170	9.27	.010	77.84	.084
1888.....	278.76	.301	679.11	.733	158.40	.171	9.12	.010	66.64	.072
1889.....	290.72	.314	703.46	.759	140.53	.152	9.03	.010	79.41	.086
1890.....	294.74	.318	739.04	.798	137.75	.149	10.61	.011	55.38	.060
1891.....	277.22	.299	776.97	.839	145.47	.157	9.26	.010	61.35	.066

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

ANIMAL AND FISH PRODUCTS—Concluded.

Year.	38. Mucilage.		39. Eggs.		40. Herring.		41. Cured fish.		42. Fish oil.	
	Per 100 kilos.	Per pound.	Per 100.	Per dozen.	Per 150 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 150 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1851.....	74.58	\$0.081	4.29	\$0.123	18.60	\$0.013	28.80	\$0.031	72.01	\$0.052
1852.....	72.60	.078	4.29	.123	25.96	.019	13.20	.004	71.62	.052
1853.....	73.08	.079	4.29	.123	25.67	.018	33.24	.036	72.24	.052
1854.....	85.74	.093	4.29	.123	25.03	.018	37.08	.040	76.24	.055
1855.....	95.76	.103	4.29	.123	25.17	.018	40.44	.044	89.18	.064
1856.....	88.80	.096	4.29	.123	27.20	.020	37.62	.041	88.96	.064
1857.....	125.94	.136	4.29	.123	33.62	.024	44.34	.048	89.70	.065
1858.....	122.34	.132	4.29	.123	27.81	.020	38.70	.042	73.07	.053
1859.....	106.08	.115	4.29	.123	29.66	.021	43.26	.047	70.28	.051
1860.....	97.62	.105	4.29	.123	26.78	.019	39.36	.042	67.71	.049
1861.....	105.78	.114	4.29	.123	29.94	.022	40.98	.044	69.48	.050
1862.....	95.16	.103	4.83	.138	27.48	.020	52.20	.056	78.68	.057
1863.....	91.56	.099	4.61	.132	26.12	.019	49.38	.052	94.44	.068
1864.....	87.30	.094	4.74	.135	26.11	.019	45.00	.049	118.59	.085
1865.....	89.58	.097	4.20	.120	30.28	.022	53.94	.058	90.80	.065
1866.....	88.44	.095	4.39	.125	32.31	.023	53.04	.057	79.48	.057
1867.....	82.26	.089	4.17	.119	30.86	.022	41.94	.045	81.45	.059
1868.....	87.72	.095	4.38	.125	30.70	.022	43.98	.047	71.14	.051
1869.....	126.42	.136	4.51	.129	25.36	.018	52.20	.056	72.46	.052
1870.....	99.84	.108	4.50	.129	25.57	.018	48.84	.053	79.12	.057
1871.....	107.92	.117	4.95	.141	29.98	.022	50.72	.055	71.16	.051
1872.....	138.88	.150	5.30	.151	29.03	.021	46.94	.051	74.62	.054
1873.....	139.60	.151	5.74	.164	31.10	.022	52.88	.057	67.31	.048
1874.....	126.64	.137	5.55	.159	31.90	.023	51.94	.056	66.04	.048
1875.....	116.72	.126	5.69	.163	31.36	.023	44.38	.048	66.90	.048
1876.....	102.52	.111	5.42	.155	33.08	.024	56.12	.061	65.17	.047
1877.....	91.64	.099	5.25	.150	35.72	.026	52.54	.057	62.97	.045
1878.....	87.44	.094	5.37	.153	33.15	.024	51.28	.055	57.77	.042
1879.....	91.02	.098	5.17	.148	37.48	.027	45.90	.050	50.98	.037
1880.....	96.81	.105	5.42	.155	32.47	.023	39.23	.042	49.37	.036
1881.....	92.98	.100	5.65	.161	34.10	.025	47.92	.052	61.36	.044
1882.....	104.30	.113	5.30	.151	35.73	.026	57.50	.062	67.39	.049
1883.....	103.78	.112	5.33	.152	36.58	.026	62.95	.068	72.64	.052
1884.....	105.66	.114	5.36	.153	32.27	.023	57.26	.062	60.61	.044
1885.....	108.02	.117	5.18	.148	29.29	.021	52.78	.057	50.49	.036
1886.....	95.06	.103	5.20	.149	26.58	.019	46.68	.050	44.13	.032
1887.....	97.99	.106	4.70	.134	23.28	.017	44.97	.049	41.68	.030
1888.....	100.09	.108	5.10	.146	25.28	.018	48.55	.052	40.47	.029
1889.....	92.67	.100	5.00	.143	24.58	.018	47.71	.052	41.71	.030
1890.....	83.72	.090	5.45	.156	24.96	.018	44.00	.048	35.47	.026
1891.....	88.51	.096	5.00	.143	29.17	.021	49.88	.054	42.44	.031

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

SOUTHERN PRODUCTS.

Year.	43. Raisins.		44. Currants.		45. Almonds.		46. Prunes.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	35.58	\$0.038	32.58	\$0.035	125.58	\$0.136	37.80	\$0.041
1852.....	34.20	.037	50.58	.055	124.80	.135	32.46	.035
1853.....	52.80	.057	95.64	.103	131.16	.142	34.08	.037
1854.....	55.08	.059	27.48	.030	130.56	.141	35.46	.038
1855.....	51.72	.056	76.98	.083	134.40	.145	46.80	.051
1856.....	81.24	.088	111.36	.120	135.66	.146	47.94	.052
1857.....	94.38	.102	89.10	.096	157.68	.170	53.34	.058
1858.....	62.34	.067	48.36	.052	128.70	.139	40.02	.043
1859.....	58.86	.064	46.98	.051	111.36	.120	44.40	.048
1860.....	54.72	.059	41.46	.045	110.22	.119	40.98	.044
1861.....	52.62	.057	40.08	.043	117.12	.126	43.02	.046
1862.....	51.00	.055	38.28	.041	107.70	.116	36.48	.039
1863.....	54.90	.059	38.64	.042	117.30	.127	39.54	.043
1864.....	49.56	.054	38.28	.041	121.08	.131	42.42	.046
1865.....	47.88	.052	35.28	.038	131.58	.142	47.40	.051
1866.....	63.84	.069	37.86	.041	155.70	.168	53.70	.058
1867.....	60.54	.065	35.16	.038	156.42	.169	51.78	.056
1868.....	50.64	.055	30.42	.033	149.82	.162	39.36	.042
1869.....	45.00	.049	32.40	.035	139.92	.151	46.02	.050
1870.....	58.26	.063	45.36	.049	146.46	.158	37.92	.041
1871.....	53.68	.058	46.16	.050	134.28	.145	48.98	.053
1872.....	52.14	.056	45.58	.049	118.24	.128	53.08	.057
1873.....	57.92	.063	40.62	.044	113.28	.122	66.08	.071
1874.....	60.38	.065	44.52	.048	123.72	.134	72.92	.079
1875.....	66.56	.072	44.88	.048	135.86	.147	45.72	.049
1876.....	55.24	.060	49.82	.054	134.86	.146	49.68	.054
1877.....	47.72	.052	49.36	.053	151.64	.164	60.12	.065
1878.....	37.12	.040	34.62	.037	167.76	.181	52.12	.056
1879.....	47.54	.051	40.82	.044	181.66	.196	50.14	.054
1880.....	54.83	.059	45.03	.049	163.53	.177	55.28	.060
1881.....	62.36	.067	42.69	.046	148.50	.160	43.50	.047
1882.....	58.76	.063	45.88	.050	137.31	.148	46.21	.050
1883.....	48.61	.052	44.10	.048	158.65	.171	53.93	.058
1884.....	41.14	.044	35.31	.038	142.72	.154	38.03	.041
1885.....	51.02	.055	37.43	.040	130.77	.141	36.12	.039
1886.....	47.25	.051	43.00	.046	130.25	.141	32.30	.035
1887.....	38.51	.042	44.21	.048	134.78	.146	32.51	.035
1888.....	37.28	.040	34.56	.037	130.23	.141	30.35	.033
1889.....	38.44	.041	32.16	.035	147.26	.159	38.84	.042
1890.....	48.80	.053	36.92	.040	167.82	.181	38.90	.042
1891.....	46.84	.051	39.94	.043	172.81	.187	37.68	.041

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

SOUTHERN PRODUCTS—Concluded.

Year.	47. Olive oil.		48. French wine, exclusive of champagne.		49. Champagne.	
	Per 100 kilos.	Per pound.	Per hectoliter.	Per gallon.	Per 100 bottles.	Per bottle.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	77.82	\$0.084	27.83	\$0.251	305.39	\$0.727
1852.....	96.42	.104	28.60	.258	295.45	.703
1853.....	121.56	.131	37.69	.340	302.39	.720
1854.....	109.20	.118	55.03	.496	301.26	.717
1855.....	100.62	.109	77.00	.694	316.54	.753
1856.....	94.86	.102	65.60	.591	321.78	.766
1857.....	108.30	.117	79.71	.718	352.97	.840
1858.....	86.04	.093	54.00	.486	331.59	.789
1859.....	91.56	.099	42.63	.384	332.45	.791
1860.....	112.92	.122	59.39	.535	328.47	.782
1861.....	111.28	.120	62.89	.567	320.23	.762
1862.....	107.76	.116	56.17	.506	329.97	.785
1863.....	103.98	.112	52.11	.499	328.17	.781
1864.....	108.72	.117	41.79	.376	317.55	.756
1865.....	104.28	.113	47.65	.429	328.20	.781
1866.....	131.46	.142	39.46	.356	359.51	.856
1867.....	128.82	.139	46.45	.418	346.14	.824
1868.....	143.46	.155	51.23	.462	343.86	.818
1869.....	111.30	.120	49.62	.447	347.19	.826
1870.....	113.58	.123	42.92	.387	346.05	.824
1871.....	107.60	.116	48.67	.438	370.06	.881
1872.....	102.14	.110	57.22	.516	368.51	.877
1873.....	89.70	.097	64.08	.577	377.48	.898
1874.....	93.14	.101	75.28	.678	395.74	.942
1875.....	98.68	.107	59.95	.540	387.24	.922
1876.....	100.78	.109	56.21	.506	387.30	.922
1877.....	108.78	.117	70.63	.636	388.81	.925
1878.....	110.92	.120	77.53	.698	360.56	.858
1879.....	104.06	.112	75.40	.679	369.40	.879
1880.....	103.20	.111	97.67	.880	389.11	.926
1881.....	93.59	.101	91.96	.828	400.12	.952
1882.....	94.58	.102	79.77	.719	389.96	.928
1883.....	85.71	.093	83.33	.751	410.34	.977
1884.....	91.29	.099	66.56	.600	379.33	.903
1885.....	92.52	.100	70.41	.634	372.62	.887
1886.....	86.65	.094	73.25	.660	350.70	.835
1887.....	93.37	.101	73.22	.660	358.12	.852
1888.....	97.59	.105	78.79	.710	348.21	.829
1889.....	92.40	.100	81.51	.734	390.16	.929
1890.....	92.22	.100	87.26	.786	402.81	.959
1891.....	102.36	.111	83.66	.754	434.41	1.034

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON).

Year.	50. Coffee.		51. Cocoa.		52. Tea.		53. Pepper.		54. Pimento.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	82.20	\$0.089	58.02	\$0.063	300.00	\$0.324	63.00	\$0.068	97.98	\$0.106
1852.....	82.20	.089	64.20	.069	273.42	.295	71.40	.077	96.78	.104
1853.....	93.12	.101	67.80	.073	296.40	.320	82.14	.089	107.52	.116
1854.....	94.32	.102	67.74	.073	288.06	.311	91.98	.099	104.04	.112
1855.....	92.10	.099	92.10	.099	262.68	.284	84.42	.091	95.58	.103
1856.....	95.70	.103	102.84	.111	298.80	.323	96.84	.105	88.50	.096
1857.....	105.54	.114	164.94	.178	334.62	.361	91.38	.099	79.44	.086
1858.....	91.20	.098	105.78	.114	280.02	.302	80.58	.087	57.90	.063
1859.....	106.68	.115	106.14	.115	335.16	.362	83.52	.090	58.62	.063
1860.....	122.22	.132	129.30	.140	377.10	.407	80.22	.087	62.28	.067
1861.....	123.12	.133	115.50	.125	295.50	.319	75.72	.082	53.76	.058
1862.....	135.24	.146	113.64	.123	333.96	.361	75.24	.081	55.56	.060
1863.....	141.06	.152	113.82	.123	350.28	.378	71.88	.078	49.74	.054
1864.....	138.78	.150	129.24	.140	312.48	.337	69.96	.076	43.86	.047
1865.....	130.80	.141	119.64	.129	288.84	.312	65.22	.070	47.28	.051
1866.....	121.80	.131	132.66	.143	277.74	.300	63.18	.068	46.44	.050
1867.....	109.02	.118	118.20	.128	341.52	.369	64.44	.070	37.80	.041
1868.....	96.48	.104	97.02	.105	338.04	.365	53.40	.058	42.66	.046
1869.....	99.12	.107	94.62	.102	309.00	.334	83.52	.090	41.82	.045
1870.....	100.56	.109	95.34	.103	276.60	.299	95.76	.103	41.82	.045
1871.....	111.79	.121	99.94	.108	275.06	.297	110.18	.119	39.82	.043
1872.....	146.24	.158	110.82	.120	294.84	.318	130.32	.141	61.36	.066
1873.....	177.38	.191	96.14	.104	280.20	.302	143.66	.155	55.64	.060
1874.....	186.08	.201	98.88	.107	277.42	.299	135.96	.147	61.92	.067
1875.....	180.68	.195	102.86	.111	286.22	.309	112.52	.121	60.04	.065
1876.....	166.50	.180	130.90	.141	279.22	.301	86.20	.093	71.26	.077
1877.....	172.18	.186	137.38	.148	238.16	.257	82.96	.090	78.64	.085
1878.....	149.42	.161	160.16	.173	223.94	.242	70.70	.076	88.04	.095
1879.....	136.22	.147	197.42	.213	250.52	.270	72.30	.078	95.84	.103
1880.....	143.15	.155	131.62	.142	237.17	.256	86.83	.094	85.70	.093
1881.....	124.46	.134	137.99	.149	216.74	.234	105.77	.114	91.09	.098
1882.....	100.33	.108	140.68	.152	214.77	.232	110.09	.119	78.07	.084
1883.....	100.19	.108	158.77	.171	210.18	.227	129.35	.140	62.77	.068
1884.....	99.83	.108	148.55	.160	212.66	.230	146.33	.158	51.74	.056
1885.....	91.20	.098	160.14	.150	206.47	.223	152.50	.165	49.19	.053
1886.....	99.49	.107	137.78	.149	203.47	.220	159.23	.172	46.79	.051
1887.....	153.95	.166	142.88	.154	178.74	.193	139.35	.150	47.78	.052
1888.....	135.31	.146	137.01	.148	206.39	.223	160.04	.173	50.04	.054
1889.....	159.37	.172	127.44	.138	204.36	.221	135.80	.147	60.57	.065
1890.....	172.07	.186	132.10	.143	198.46	.214	113.32	.122	59.95	.065
1891.....	163.50	.177	143.81	.155	214.74	.232	87.40	.094	53.89	.058

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Continued.

Year.	55. Cassia.		56. Rice.		57. Sago.		58. Arrack.		59. Rum.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	202.02	\$0.218	27.18	\$0.029	46.02	\$0.050	48.18	\$0.052	52.38	\$0.057
1852.....	219.00	.236	23.40	.025	40.02	.043	46.98	.051	49.02	.053
1853.....	232.44	.251	31.68	.034	48.36	.052	56.88	.061	66.18	.071
1854.....	227.40	.245	28.92	.031	47.22	.051	64.68	.070	70.20	.076
1855.....	223.86	.242	32.58	.035	53.22	.057	83.52	.090	77.16	.083
1856.....	204.36	.221	25.20	.027	53.52	.057	81.60	.088	72.18	.078
1857.....	254.46	.275	24.90	.027	51.66	.056	79.26	.086	88.38	.095
1858.....	194.40	.210	20.22	.022	39.96	.043	53.34	.058	62.70	.068
1859.....	163.38	.176	22.08	.024	39.84	.043	45.12	.049	71.58	.077
1860.....	179.94	.194	24.48	.026	41.22	.044	46.26	.050	74.10	.080
1861.....	176.34	.190	24.66	.027	41.22	.044	56.22	.061	71.10	.077
1862.....	170.94	.185	23.34	.025	47.22	.051	48.30	.052	58.38	.063
1863.....	180.72	.195	22.92	.025	43.08	.047	61.68	.066	60.42	.065
1864.....	172.08	.186	22.98	.025	45.24	.049	61.38	.066	78.48	.085
1865.....	171.54	.185	24.78	.027	41.28	.045	56.82	.061	68.04	.073
1866.....	192.18	.207	22.74	.025	37.74	.941	54.72	.059	70.86	.076
1867.....	204.60	.221	23.88	.026	38.16	.041	60.96	.066	73.14	.079
1868.....	228.72	.247	23.58	.025	43.92	.047	67.80	.073	81.36	.088
1869.....	260.70	.281	19.20	.021	43.56	.047	76.26	.082	89.40	.097
1870.....	234.18	.253	21.96	.024	37.32	.040	69.90	.075	92.94	.100
1871.....	213.04	.230	22.36	.024	36.20	.039	60.48	.065	81.78	.088
1872.....	179.58	.194	22.82	.025	36.34	.039	54.96	.059	89.52	.097
1873.....	155.94	.168	20.42	.022	37.52	.041	70.74	.076	100.56	.109
1874.....	132.36	.143	23.02	.025	40.52	.044	88.00	.095	106.56	.115
1875.....	112.82	.122	19.30	.021	38.32	.041	84.38	.091	95.58	.103
1876.....	102.50	.111	19.88	.021	36.14	.039	86.86	.094	104.28	.113
1877.....	99.80	.108	21.22	.023	39.68	.043	87.94	.095	108.82	.117
1878.....	85.90	.093	22.42	.024	42.04	.045	76.70	.083	103.08	.111
1879.....	82.78	.089	21.02	.023	40.82	.044	58.20	.063	98.22	.106
1880.....	75.68	.082	19.82	.021	36.88	.040	66.67	.072	107.49	.116
1881.....	85.33	.092	19.75	.021	37.87	.041	57.76	.062	111.32	.120
1882.....	74.57	.081	17.84	.019	33.78	.036	92.27	.100	104.47	.113
1883.....	68.67	.074	19.25	.021	29.40	.032	48.01	.052	112.04	.121
1884.....	63.67	.069	18.44	.020	26.73	.029	73.92	.080	87.40	.094
1885.....	54.40	.059	17.37	.019	28.57	.031	67.38	.073	103.79	.112
1886.....	51.24	.055	16.37	.018	27.00	.029	76.21	.082	108.84	.117
1887.....	43.92	.047	16.93	.018	26.91	.029	78.95	.085	108.79	.117
1888.....	37.81	.041	16.67	.018	31.43	.034	69.37	.075	105.09	.113
1889.....	44.19	.048	17.53	.019	32.26	.035	70.91	.077	102.96	.111
1890.....	39.44	.043	17.67	.019	27.25	.029	77.23	.083	117.94	.127
1891.....	39.18	.042	18.19	.020	26.31	.028	72.64	.078	94.15	.102

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Continued.

Year.	60. Tobacco.		61. Indigo.		62. Cochineal.		63. Logwood.		64. Redwood.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	109.38	\$0.118	967.98	\$1.048	813.00	\$0.878	9.42	\$0.010	24.78	\$0.027
1852.....	100.38	.108	1,026.00	1.108	793.80	.857	10.02	.011	24.42	.026
1853.....	113.88	.123	1,103.40	1.191	987.48	1.066	14.28	.015	25.44	.027
1854.....	113.88	.123	1,064.76	1.149	909.54	.982	15.72	.017	24.96	.027
1855.....	122.34	.132	1,103.34	1.191	871.14	.940	13.74	.015	26.46	.029
1856.....	145.26	.157	1,103.40	1.191	851.88	.920	13.98	.015	26.58	.029
1857.....	155.34	.168	1,316.40	1.421	812.70	.877	12.18	.013	33.90	.037
1858.....	125.70	.136	1,323.00	1.428	815.76	.881	10.32	.011	23.16	.025
1859.....	140.94	.152	1,325.10	1.431	786.24	.849	10.98	.012	25.26	.027
1860.....	144.18	.156	1,406.82	1.519	628.38	.678	12.06	.013	21.78	.024
1861.....	162.78	.176	1,486.14	1.604	618.96	.668	13.44	.015	18.96	.020
1862.....	172.44	.186	1,628.64	1.758	545.34	.589	13.86	.015	17.10	.018
1863.....	136.02	.147	1,291.20	1.394	607.50	.656	12.06	.013	15.90	.017
1864.....	135.30	.146	1,342.38	1.449	726.60	.784	11.64	.013	16.80	.018
1865.....	113.82	.123	1,303.08	1.407	753.90	.814	12.36	.013	18.78	.020
1866.....	104.52	.113	1,460.64	1.577	797.28	.861	13.38	.014	20.40	.022
1867.....	116.04	.125	1,459.74	1.576	777.96	.840	10.62	.011	21.72	.023
1868.....	122.04	.132	1,568.70	1.694	875.88	.946	13.38	.014	24.84	.027
1869.....	139.80	.151	1,734.12	1.872	705.84	.762	15.42	.017	21.36	.023
1870.....	134.94	.146	1,742.82	1.881	630.12	.680	13.02	.014	16.68	.018
1871.....	139.30	.150	1,630.88	1.761	622.94	.673	13.20	.014	15.42	.017
1872.....	164.02	.177	1,617.84	1.747	553.28	.597	14.28	.015	14.02	.015
1873.....	148.32	.160	1,418.00	1.531	567.14	.612	14.24	.015	14.78	.016
1874.....	148.22	.160	1,476.18	1.594	524.52	.566	13.18	.014	22.12	.024
1875.....	142.54	.154	1,451.38	1.567	466.98	.504	16.40	.018	20.18	.022
1876.....	147.92	.160	1,303.34	1.407	508.84	.549	15.58	.017	16.66	.018
1877.....	141.78	.153	1,314.30	1.419	569.28	.615	14.82	.016	15.68	.017
1878.....	134.54	.145	1,259.22	1.359	523.16	.565	13.76	.015	15.86	.017
1879.....	126.84	.137	1,246.72	1.346	576.52	.622	14.54	.016	16.72	.018
1880.....	136.45	.147	1,304.74	1.409	598.36	.646	14.66	.016	19.66	.021
1881.....	130.42	.141	1,393.25	1.504	439.30	.474	13.75	.015	17.09	.018
1882.....	116.29	.126	1,362.34	1.471	355.89	.384	14.13	.015	15.55	.017
1883.....	112.26	.121	1,303.29	1.407	265.48	.287	13.35	.014	14.95	.016
1884.....	123.54	.133	1,223.93	1.321	250.38	.270	13.45	.015	13.31	.014
1885.....	125.41	.135	1,089.80	1.177	316.40	.342	12.63	.014	11.14	.012
1886.....	127.51	.138	1,114.41	1.203	303.57	.328	12.50	.013	11.87	.013
1887.....	115.18	.124	1,079.87	1.166	265.63	.287	12.65	.014	12.09	.013
1888.....	114.52	.124	1,046.31	1.130	239.30	.258	14.83	.016	12.58	.014
1889.....	124.35	.134	1,198.68	1.294	232.38	.251	16.29	.018	11.48	.012
1890.....	130.80	.141	927.63	1.001	230.39	.249	15.79	.017	11.31	.012
1891.....	122.28	.132	1,069.27	1.154	228.15	.246	13.91	.015	13.97	.015

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Concluded.

Year.	65. Mahogany.		66. Cane.		67. Palm oil.		68. Ivory.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	25.20	\$0.027	32.82	\$0.035	56.82	\$0.061	909.78	\$0.982
1852.....	25.20	.027	32.58	.035	58.38	.063	975.18	1.053
1853.....	23.58	.025	36.06	.039	72.60	.078	1,122.66	1.212
1854.....	24.00	.026	31.56	.034	95.88	.104	1,218.90	1.316
1855.....	19.56	.021	33.00	.036	85.74	.093	1,335.84	1.442
1856.....	23.88	.026	36.00	.039	81.60	.088	1,393.86	1.505
1857.....	28.02	.030	53.34	.058	89.22	.096	1,648.38	1.780
1858.....	20.58	.022	49.14	.053	76.32	.082	1,439.10	1.100
1859.....	23.76	.026	41.40	.045	83.46	.090	1,391.16	1.502
1860.....	27.12	.029	37.74	.041	80.46	.087	1,372.26	1.481
1861.....	23.46	.025	36.96	.040	81.12	.088	1,223.16	1.320
1862.....	19.32	.021	42.24	.046	75.54	.082	1,257.54	1.358
1863.....	27.72	.030	53.28	.058	64.32	.069	1,240.92	1.340
1864.....	41.58	.045	58.44	.063	72.36	.078	1,503.24	1.623
1865.....	27.96	.030	53.52	.058	72.24	.078	1,280.04	1.382
1866.....	26.40	.029	50.82	.055	77.40	.084	1,411.62	1.524
1867.....	19.86	.021	41.76	.045	80.16	.087	1,349.76	1.457
1868.....	15.96	.017	44.04	.048	82.08	.089	1,343.46	1.450
1869.....	14.88	.016	43.44	.047	83.04	.090	1,351.14	1.459
1870.....	22.32	.024	44.64	.048	79.08	.085	1,364.16	1.473
1871.....	20.70	.022	43.00	.046	103.08	.111	1,273.34	1.375
1872.....	27.18	.029	55.12	.060	79.10	.085	1,510.88	1.631
1873.....	25.78	.028	59.82	.065	74.24	.080	1,878.20	2.028
1874.....	22.32	.024	59.22	.064	70.80	.076	1,819.66	1.964
1875.....	20.22	.022	56.58	.061	70.30	.076	2,021.96	2.183
1876.....	22.76	.025	50.56	.055	73.96	.080	1,897.82	2.049
1877.....	21.74	.023	52.60	.057	77.72	.084	1,775.60	1.917
1878.....	18.88	.020	49.24	.053	77.36	.084	1,852.88	2.000
1879.....	18.70	.020	47.54	.051	68.66	.074	1,530.30	1.653
1880.....	20.66	.022	54.73	.059	65.19	.070	1,496.00	1.615
1881.....	19.91	.021	55.47	.060	63.04	.068	1,615.50	1.744
1882.....	21.52	.023	56.42	.061	63.64	.069	1,748.77	1.888
1883.....	22.39	.024	56.09	.061	69.15	.075	1,858.13	2.006
1884.....	17.40	.019	51.42	.056	65.90	.071	1,920.69	2.074
1885.....	16.02	.017	53.27	.058	54.54	.059	1,790.43	1.933
1886.....	16.87	.018	51.21	.055	45.39	.049	1,686.63	1.821
1887.....	17.47	.019	52.43	.057	42.78	.046	1,657.62	1.790
1888.....	19.07	.021	46.51	.050	40.13	.043	1,697.86	1.833
1889.....	21.91	.024	46.97	.051	44.62	.048	1,663.86	1.796
1890.....	24.40	.026	46.27	.050	46.77	.051	1,839.27	1.986
1891.....	19.13	.021	47.00	.051	48.19	.052	1,888.66	2.039

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

MINERALS AND METALS.

Year.	69. Coal.		70. Pig iron.		71. Bar iron.		72. Steel.		73. Lead.	
	Per 1,000 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	13.81	\$3.340	5.58	\$0.006	16.02	\$0.017	49.20	\$0.053	36.78	\$0.040
1852.....	13.78	3.332	5.82	.006	16.62	.018	55.38	.060	33.18	.036
1853.....	17.91	4.331	7.92	.009	22.20	.024	48.12	.052	42.22	.046
1854.....	20.65	4.994	10.44	.011	25.38	.027	61.92	.067	47.16	.051
1855.....	19.00	4.595	9.48	.010	22.74	.025	77.64	.084	51.54	.056
1856.....	18.78	4.541	9.18	.010	24.12	.026	70.02	.076	47.64	.051
1857.....	17.97	4.346	8.82	.010	24.00	.026	69.00	.074	46.68	.050
1858.....	15.78	3.816	6.90	.007	20.28	.022	60.60	.065	41.22	.044
1859.....	15.63	3.780	6.54	.007	20.28	.022	58.14	.063	44.28	.048
1860.....	15.18	3.671	6.54	.007	19.50	.021	55.20	.060	42.42	.046
1861.....	15.93	3.852	6.18	.007	18.42	.020	55.86	.060	41.64	.045
1862.....	16.03	3.876	6.30	.007	18.84	.020	58.02	.063	39.78	.043
1863.....	15.08	3.647	7.32	.008	19.50	.021	67.56	.073	39.66	.043
1864.....	16.11	3.896	7.56	.008	22.14	.024	58.62	.063	40.98	.044
1865.....	16.35	3.954	7.38	.008	21.54	.023	58.50	.063	39.06	.042
1866.....	16.31	3.944	7.08	.008	21.00	.023	54.90	.059	40.92	.044
1867.....	16.02	3.874	6.96	.008	20.22	.022	47.52	.051	38.16	.041
1868.....	15.58	3.768	6.72	.007	18.72	.020	48.00	.052	40.56	.044
1869.....	15.13	3.659	6.60	.007	18.54	.020	48.54	.052	39.60	.043
1870.....	15.16	3.666	6.96	.008	19.68	.021	49.20	.053	40.98	.044
1871.....	15.55	3.760	7.26	.008	21.32	.023	58.36	.063	39.30	.042
1872.....	21.73	5.255	12.54	.014	27.60	.030	66.32	.072	53.70	.058
1873.....	27.46	6.640	14.36	.016	34.24	.037	57.12	.062	63.08	.068
1874.....	22.17	5.361	10.26	.011	22.48	.024	45.12	.049	45.08	.049
1875.....	18.07	4.370	8.20	.009	23.62	.025	39.62	.043	50.22	.054
1876.....	16.56	4.005	8.08	.009	20.52	.022	54.42	.059	47.92	.052
1877.....	15.40	3.724	7.18	.008	18.72	.020	48.20	.052	44.12	.048
1878.....	13.95	3.373	6.40	.007	17.48	.019	46.06	.050	40.92	.044
1879.....	13.10	3.168	5.72	.006	15.76	.017	37.66	.041	37.30	.040
1880.....	13.16	3.182	6.54	.007	16.55	.018	37.77	.041	37.01	.040
1881.....	12.67	3.064	5.94	.006	16.01	.017	37.15	.040	31.15	.034
1882.....	12.66	3.061	6.20	.007	17.58	.019	36.88	.040	30.34	.033
1883.....	12.65	3.059	5.96	.006	16.31	.018	34.87	.038	28.78	.031
1884.....	12.52	3.028	5.77	.006	15.18	.016	37.08	.040	25.08	.027
1885.....	12.31	2.977	5.14	.006	14.26	.015	34.41	.037	25.89	.028
1886.....	11.88	2.873	4.77	.005	13.58	.015	31.33	.034	26.16	.028
1887.....	11.65	2.817	5.04	.005	13.86	.015	26.11	.028	31.71	.034
1888.....	11.69	2.827	4.90	.005	14.08	.015	28.60	.031	32.83	.035
1889.....	13.20	3.192	6.17	.007	16.35	.018	35.71	.039	37.46	.040
1890.....	15.87	3.838	6.43	.007	17.10	.018	35.34	.038	48.86	.053
1891.....	16.32	3.947	5.60	.006	16.77	.018	38.33	.041	45.35	.049

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

MINERALS AND METALS—Continued.

Year.	74. Zinc.		75. Tin.		76. Copper.		77. Quicksilver.		78. Sulphur, raw.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	28.98	\$0.031	160.98	\$0.174	173.58	\$0.187	735.60	\$0.794	14.82	\$0.016
1852.....	33.42	.036	174.18	.188	183.42	.198	620.22	.670	13.38	.014
1853.....	42.06	.045	246.84	.266	223.26	.241	499.80	.540	13.02	.014
1854.....	42.28	.046	237.24	.256	232.50	.251	436.86	.472	10.62	.011
1855.....	45.17	.049	231.30	.250	232.80	.251	400.32	.432	11.10	.012
1856.....	49.92	.054	266.22	.287	240.24	.259	387.12	.418	10.56	.011
1857.....	56.52	.061	297.84	.322	228.54	.247	417.54	.451	18.54	.020
1858.....	46.80	.051	244.38	.264	205.50	.222	408.00	.440	16.44	.018
1859.....	41.76	.045	273.48	.295	193.68	.209	386.70	.417	17.04	.018
1860.....	39.78	.043	276.78	.299	204.18	.220	443.34	.479	20.40	.022
1861.....	36.00	.039	245.16	.265	192.00	.207	435.48	.470	15.60	.017
1862.....	35.76	.039	238.62	.258	189.12	.204	444.06	.479	13.80	.015
1863.....	35.76	.039	259.44	.280	178.62	.193	434.88	.469	12.36	.013
1864.....	43.14	.047	222.96	.241	194.88	.210	513.36	.554	14.70	.016
1865.....	41.94	.045	198.48	.214	178.20	.192	447.30	.483	13.50	.015
1866.....	43.86	.047	179.88	.194	187.02	.202	422.82	.456	13.62	.015
1867.....	43.08	.047	186.06	.201	167.82	.181	447.66	.483	12.72	.014
1868.....	40.20	.043	192.90	.208	153.72	.166	417.06	.450	12.90	.014
1869.....	41.40	.045	241.74	.261	155.52	.168	447.54	.483	14.58	.016
1870.....	38.76	.042	257.88	.278	151.14	.163	494.70	.534	15.00	.016
1871.....	35.90	.039	276.46	.298	155.58	.168	603.42	.651	13.42	.014
1872.....	45.90	.050	311.42	.336	190.02	.205	720.18	.777	12.78	.014
1873.....	55.64	.060	297.54	.321	191.50	.207	846.68	.914	11.56	.012
1874.....	46.08	.050	212.78	.230	177.76	.192	1,303.30	1.407	13.80	.015
1875.....	48.14	.052	198.64	.214	183.12	.198	786.50	.849	13.78	.015
1876.....	50.90	.055	184.50	.199	181.60	.196	698.98	.755	12.00	.013
1877.....	44.74	.048	163.38	.176	171.14	.185	543.30	.587	11.86	.013
1878.....	45.70	.049	146.32	.158	151.62	.164	450.14	.486	12.32	.013
1879.....	34.24	.037	146.90	.159	135.84	.147	406.20	.439	9.42	.010
1880.....	39.85	.043	178.42	.193	131.82	.142	434.09	.469	11.83	.013
1881.....	36.32	.039	187.84	.203	135.15	.146	413.43	.446	12.45	.013
1882.....	36.38	.039	199.87	.216	143.23	.155	403.65	.436	13.35	.014
1883.....	36.43	.039	198.16	.214	136.13	.147	354.63	.383	11.77	.013
1884.....	34.25	.037	179.75	.194	124.84	.135	374.47	.404	11.24	.012
1885.....	25.14	.027	168.53	.182	110.92	.120	375.19	.405	13.70	.015
1886.....	27.28	.029	169.68	.183	103.32	.112	368.80	.398	10.69	.012
1887.....	28.06	.030	185.28	.200	96.31	.104	458.56	.495	9.46	.010
1888.....	29.85	.032	209.83	.227	134.52	.145	463.52	.500	9.89	.011
1889.....	32.37	.035	180.31	.195	110.17	.119	523.23	.565	10.08	.011
1890.....	40.58	.044	177.35	.191	110.14	.119	596.32	.644	10.77	.012
1891.....	45.41	.049	175.13	.189	115.61	.125	483.31	.522	11.91	.013

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

MINERALS AND METALS—Concluded.

Year.	79. Saltpetre, raw, Chile.		80. Salt.		81. Lime.		82. Cement.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	27.60	\$0.030	4.02	\$0.004	3.00	\$0.003	5.58	\$0.006
1852.....	29.40	.022	3.00	.003	3.00	.003	5.82	.006
1853.....	34.02	.037	3.48	.004	2.82	.003	5.40	.006
1854.....	33.84	.037	3.18	.003	3.00	.003	5.82	.006
1855.....	45.48	.049	3.18	.003	3.00	.003	5.64	.006
1856.....	30.84	.033	3.78	.004	3.00	.003	5.64	.006
1857.....	35.40	.038	4.08	.004	3.00	.003	5.70	.006
1858.....	29.82	.032	3.78	.004	3.00	.003	5.46	.006
1859.....	27.54	.030	3.90	.004	3.36	.004	5.16	.006
1860.....	25.68	.028	3.60	.004	3.24	.003	5.28	.006
1861.....	23.76	.026	3.72	.004	3.18	.003	5.34	.006
1862.....	27.72	.030	3.66	.004	3.12	.003	5.16	.006
1863.....	26.76	.029	3.24	.003	3.30	.004	5.10	.006
1864.....	29.28	.032	2.16	.002	3.12	.003	4.86	.005
1865.....	24.96	.027	1.98	.002	3.00	.003	4.92	.005
1866.....	23.10	.025	1.74	.002	2.76	.003	4.80	.005
1867.....	21.72	.023	1.74	.002	2.70	.003	4.98	.005
1868.....	24.18	.026	2.10	.002	2.52	.003	4.44	.005
1869.....	30.36	.033	1.92	.002	2.58	.003	4.32	.005
1870.....	31.38	.034	2.40	.003	2.82	.003	4.38	.005
1871.....	31.08	.034	2.94	.003	2.40	.003	4.34	.005
1872.....	29.68	.032	2.74	.003	2.40	.003	4.68	.005
1873.....	28.96	.031	3.64	.004	5.04	.005	6.26	.007
1874.....	23.96	.026	3.64	.004	3.12	.003	5.54	.006
1875.....	23.14	.025	2.82	.003	3.32	.004	5.14	.006
1876.....	23.12	.025	3.16	.003	3.58	.004	5.04	.005
1877.....	27.76	.030	2.82	.003	3.46	.004	4.98	.005
1878.....	29.76	.032	2.52	.003	3.58	.004	4.72	.005
1879.....	28.28	.031	2.26	.002	3.40	.004	4.74	.005
1880.....	30.48	.033	2.27	.002	2.82	.003	4.47	.005
1881.....	28.70	.031	2.10	.002	2.68	.003	4.43	.005
1882.....	26.07	.028	2.27	.002	3.12	.003	4.25	.005
1883.....	22.37	.024	2.09	.002	3.02	.003	4.48	.005
1884.....	19.25	.021	1.97	.002	3.04	.003	4.33	.005
1885.....	20.48	.022	1.74	.002	2.52	.003	4.19	.005
1886.....	19.48	.021	1.62	.002	2.31	.002	4.07	.004
1887.....	19.30	.021	1.96	.002	2.44	.003	3.98	.004
1888.....	19.02	.021	2.02	.002	2.30	.002	3.64	.004
1889.....	18.37	.020	1.76	.002	2.06	.002	4.07	.004
1890.....	16.02	.017	1.18	.001	2.06	.002	4.01	.004
1891.....	16.66	.018	1.57	.002	2.26	.002	4.05	.004

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

TEXTILE MATERIALS.

Year.	83. Cotton.		84. Wool.		85. Flax.		86. Hemp.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	106.38	\$0.115	383.58	\$0.414	118.20	\$0.128	75.60	\$0.082
1852.....	100.38	.108	366.60	.396	116.22	.125	76.02	.082
1853.....	110.16	.119	357.00	.385	79.68	.086	73.02	.079
1854.....	90.60	.098	377.64	.408	74.64	.081	101.22	.109
1855.....	90.84	.098	343.68	.371	73.92	.080	78.36	.085
1856.....	108.84	.117	394.38	.426	85.74	.093	68.58	.074
1857.....	126.36	.136	435.72	.470	106.02	.114	70.38	.076
1858.....	116.28	.126	407.28	.440	112.20	.121	60.78	.066
1859.....	109.68	.118	416.40	.450	110.46	.119	60.42	.065
1860.....	102.36	.111	432.30	.467	134.64	.145	64.92	.070
1861.....	128.40	.139	387.66	.419	139.80	.151	64.08	.069
1862.....	236.64	.255	417.00	.450	142.26	.154	66.18	.071
1863.....	374.16	.404	399.24	.431	157.80	.170	77.94	.084
1864.....	436.02	.471	334.20	.361	135.30	.146	75.42	.081
1865.....	234.12	.253	356.88	.385	105.60	.114	56.64	.061
1866.....	262.14	.283	331.14	.357	169.32	.183	68.70	.074
1867.....	202.08	.218	296.88	.321	168.30	.182	66.96	.072
1868.....	155.52	.168	312.78	.338	167.82	.181	75.90	.082
1869.....	192.48	.208	287.34	.310	162.54	.175	78.42	.085
1870.....	172.02	.186	304.44	.329	151.56	.164	70.08	.076
1871.....	147.56	.159	328.02	.354	131.62	.142	80.70	.087
1872.....	167.22	.181	387.38	.418	128.44	.139	77.28	.083
1873.....	153.64	.166	340.68	.368	114.32	.123	72.68	.078
1874.....	148.10	.160	301.22	.325	115.30	.124	79.40	.086
1875.....	131.38	.142	313.90	.339	125.88	.136	72.50	.078
1876.....	111.08	.120	270.42	.292	119.02	.128	68.42	.074
1877.....	111.50	.120	273.76	.296	142.66	.154	73.60	.079
1878.....	111.24	.120	302.28	.326	122.52	.132	62.66	.068
1879.....	113.34	.122	287.08	.310	145.52	.157	56.66	.061
1880.....	122.40	.132	284.75	.307	90.37	.098	57.09	.062
1881.....	110.22	.119	288.48	.311	120.47	.130	60.16	.065
1882.....	111.78	.121	260.59	.281	111.90	.121	59.72	.064
1883.....	101.00	.109	245.47	.265	121.51	.131	60.85	.066
1884.....	102.91	.111	200.72	.217	138.86	.150	64.99	.070
1885.....	102.42	.111	202.48	.219	148.20	.160	62.52	.067
1886.....	96.46	.104	187.35	.202	132.34	.143	62.66	.068
1887.....	92.30	.100	184.67	.199	96.92	.105	57.40	.062
1888.....	102.17	.110	152.88	.165	89.99	.097	55.40	.060
1889.....	102.59	.111	165.88	.179	90.00	.097	62.39	.067
1890.....	99.73	.108	174.70	.189	88.55	.096	57.10	.062
1891.....	97.24	.105	170.68	.184	74.56	.080	57.11	.062

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.*

TEXTILE MATERIALS—Concluded.

Year.	87. Silk.		88. Cordage.		89. Rags.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	3,813.78	\$4.117	67.02	\$0.072	29.22	\$0.032
1852.....	3,678.18	3.971	73.20	.079	32.22	.035
1853.....	3,930.00	4.243	67.14	.072	36.66	.040
1854.....	3,271.92	3.532	102.00	.110	40.32	.044
1855.....	3,136.15	3.386	108.60	.117	33.78	.036
1856.....	2,884.68	3.114	77.40	.084	34.14	.037
1857.....	3,815.04	4.119	78.84	.085	36.48	.039
1858.....	3,408.00	3.679	70.62	.076	32.52	.035
1859.....	3,758.04	4.057	71.16	.077	33.60	.036
1860.....	3,771.60	4.072	70.98	.077	33.18	.036
1861.....	3,522.42	3.803	70.56	.076	35.22	.038
1862.....	2,913.06	3.145	79.92	.086	30.48	.033
1863.....	3,594.36	3.880	85.56	.092	35.04	.038
1864.....	3,666.12	3.958	77.88	.084	40.20	.043
1865.....	3,957.30	4.272	72.42	.078	33.54	.036
1866.....	4,137.84	4.467	74.28	.080	36.72	.040
1867.....	4,942.14	5.335	79.80	.086	38.28	.041
1868.....	5,148.72	5.558	84.78	.092	35.34	.038
1869.....	4,968.78	5.364	82.44	.089	37.68	.041
1870.....	4,540.08	4.901	79.44	.086	37.38	.040
1871.....	4,537.74	4.899	82.58	.089	34.74	.038
1872.....	5,009.88	5.408	84.36	.091	29.82	.032
1873.....	5,012.82	5.412	93.16	.101	32.92	.036
1874.....	3,784.24	4.085	89.42	.097	31.62	.034
1875.....	3,335.02	3.600	90.14	.097	35.02	.038
1876.....	3,943.88	4.258	85.14	.092	33.10	.036
1877.....	4,214.98	4.550	79.96	.086	29.18	.032
1878.....	3,415.48	3.687	81.46	.088	30.76	.033
1879.....	2,890.84	3.121	69.46	.075	28.84	.031
1880.....	3,360.21	3.628	77.10	.083	32.39	.035
1881.....	3,189.04	3.443	74.32	.080	32.62	.035
1882.....	3,026.54	3.267	74.32	.080	29.82	.032
1883.....	3,326.14	3.591	75.73	.082	29.23	.032
1884.....	3,092.54	3.339	78.03	.084	28.23	.030
1885.....	2,902.70	3.134	77.65	.084	25.51	.028
1886.....	2,686.13	2.900	74.58	.081	23.55	.025
1887.....	2,616.79	2.825	74.65	.081	21.23	.023
1888.....	2,876.19	3.105	79.58	.086	21.50	.023
1889.....	3,637.54	3.927	82.23	.089	24.75	.027
1890.....	2,283.74	2.465	79.23	.086	24.40	.026
1891.....	2,290.52	2.473	78.69	.085	26.89	.029

TABLE 66.--Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Continued.

MISCELLANEOUS ARTICLES.

Year.	90. Guano.		91. India rubber.		92. Gutta-percha.		93. Rosin.		94. Potash, prussiate and chromate of.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1851.....	21.00	\$0.023	389.58	\$0.421	172.98	\$0.187	8.82	\$0.010	139.70	\$0.151
1852.....	19.02	.021	283.20	.306	176.58	.191	7.80	.008	138.15	.149
1853.....	21.24	.023	392.04	.423	215.34	.232	10.20	.011	150.67	.163
1854.....	23.88	.026	393.12	.424	244.38	.264	10.86	.012	145.98	.158
1855.....	23.40	.025	272.28	.294	170.64	.184	9.48	.010	149.29	.161
1856.....	23.34	.025	228.60	.247	173.04	.187	9.06	.010	168.38	.182
1857.....	26.52	.029	228.12	.246	202.02	.218	10.56	.011	173.47	.187
1858.....	24.54	.026	222.42	.240	169.02	.182	9.66	.010	166.28	.180
1859.....	21.72	.023	407.34	.440	305.70	.330	10.02	.011	204.97	.221
1860.....	24.30	.026	452.70	.489	304.32	.329	9.54	.010	190.95	.206
1861.....	22.86	.025	295.26	.319	273.60	.295	15.18	.016	166.15	.179
1862.....	25.74	.028	337.02	.364	284.52	.307	41.76	.045	143.22	.155
1863.....	24.12	.026	314.94	.340	363.90	.393	47.16	.051	149.24	.161
1864.....	23.46	.025	268.32	.290	438.96	.474	52.62	.057	135.93	.147
1865.....	24.36	.026	274.14	.296	336.48	.363	26.04	.028	119.40	.129
1866.....	23.46	.025	392.76	.424	250.26	.270	17.76	.019	120.95	.131
1867.....	20.28	.022	331.92	.358	292.92	.316	17.46	.019	107.40	.116
1868.....	20.70	.022	350.34	.378	274.44	.296	12.84	.014	111.14	.120
1869.....	24.12	.026	267.84	.289	197.28	.213	10.98	.012	107.42	.116
1870.....	21.54	.023	348.06	.376	366.18	.395	11.34	.012	106.14	.115
1871.....	23.44	.025	385.64	.416	310.42	.335	17.26	.019	141.28	.153
1872.....	24.60	.027	438.54	.473	301.12	.325	19.20	.021	194.34	.210
1873.....	14.42	.016	406.50	.439	310.92	.336	16.52	.018	181.69	.196
1874.....	14.26	.015	332.12	.358	296.92	.321	13.54	.015	136.47	.147
1875.....	12.94	.014	318.14	.343	225.50	.243	11.36	.012	118.82	.128
1876.....	15.32	.017	324.48	.350	345.22	.373	11.46	.012	99.22	.107
1877.....	12.74	.014	296.44	.320	404.26	.436	11.62	.013	95.05	.103
1878.....	14.58	.016	309.70	.334	412.52	.445	10.28	.011	88.81	.096
1879.....	11.34	.012	361.50	.390	335.52	.362	9.46	.010	116.36	.126
1880.....	12.03	.013	500.51	.540	289.66	.313	10.80	.012	118.33	.128
1881.....	11.88	.013	425.76	.460	314.35	.339	12.26	.013	120.04	.130
1882.....	15.94	.017	455.34	.492	290.86	.314	12.10	.013	129.68	.140
1883.....	14.04	.015	485.10	.524	274.90	.297	10.51	.011	111.34	.120
1884.....	11.99	.013	363.29	.392	288.35	.311	8.66	.009	74.52	.080
1885.....	11.07	.012	368.20	.397	261.60	.282	8.06	.009	99.95	.108
1886.....	9.89	.011	440.92	.476	247.16	.267	8.00	.009	92.53	.095
1887.....	9.40	.010	452.61	.489	239.40	.258	7.59	.008	98.26	.106
1888.....	7.96	.009	381.90	.412	234.38	.253	7.45	.008	91.63	.099
1889.....	10.13	.011	371.62	.401	350.59	.378	9.03	.010	93.95	.101
1890.....	10.42	.011	444.11	.479	364.64	.394	9.62	.010	101.74	.110
1891.....	9.20	.010	376.31	.406	312.81	.338	10.09	.011	99.50	.107

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures—Concluded.*

MISCELLANEOUS ARTICLES—Concluded.

Year.	95. Pitch.		96. Potash, carbonate of.		97. Soda.		98. Tallow candles.		99. Tar.		100. Wax.	
	Per100 kilos.	Per pound.	Per100 kilos.	Per pound.	Per100 kilos.	Per pound.	Per100 kilos.	Per pound.	Per100 kilos.	Per pound.	Per100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.		Marks.	
1851.....	22.80	\$0.025	51.78	\$0.056	18.42	\$0.020	192.42	\$0.208	13.62	\$0.015	306.18	\$0.331
1852.....	21.60	.023	45.42	.049	17.62	.019	184.02	.199	12.42	.013	300.00	.324
1853.....	18.72	.020	49.02	.053	18.08	.020	208.20	.225	12.00	.013	313.44	.338
1854.....	23.64	.026	63.48	.069	17.30	.019	237.18	.256	20.64	.022	304.98	.329
1855.....	22.50	.024	66.96	.072	16.67	.018	240.78	.260	20.22	.022	298.80	.323
1856.....	17.22	.019	67.68	.073	18.15	.020	213.00	.230	12.24	.013	307.44	.332
1857.....	16.32	.018	75.96	.082	22.30	.024	217.86	.235	12.18	.013	309.00	.334
1858.....	16.26	.018	52.74	.057	21.49	.023	205.14	.221	11.76	.013	321.96	.348
1859.....	18.96	.020	55.26	.060	21.12	.023	212.10	.229	13.50	.015	289.32	.312
1860.....	16.62	.018	48.48	.052	18.58	.020	211.08	.228	16.62	.018	327.48	.354
1861.....	22.98	.025	54.42	.059	16.75	.018	203.10	.219	22.08	.024	292.92	.316
1862.....	37.50	.040	55.80	.060	15.22	.016	190.56	.206	24.06	.026	266.22	.287
1863.....	38.34	.041	57.06	.062	14.75	.016	167.22	.181	18.18	.020	283.26	.306
1864.....	31.86	.034	52.80	.057	14.77	.016	145.38	.157	14.70	.016	342.90	.370
1865.....	20.10	.022	52.38	.057	15.57	.017	144.48	.156	12.66	.014	311.70	.336
1866.....	19.50	.021	45.12	.049	19.46	.021	154.20	.166	11.22	.012	295.62	.319
1867.....	16.92	.018	45.18	.049	18.15	.020	156.00	.168	11.70	.013	325.80	.352
1868.....	15.60	.017	45.60	.049	14.80	.016	157.62	.170	12.60	.014	305.64	.330
1869.....	20.22	.022	46.86	.051	14.10	.015	154.20	.166	14.10	.015	324.30	.350
1870.....	24.36	.026	52.56	.057	13.32	.014	148.92	.161	15.90	.017	308.22	.333
1871.....	17.54	.019	56.02	.060	16.32	.018	149.12	.161	16.42	.018	316.66	.342
1872.....	20.94	.023	61.86	.067	25.08	.027	145.02	.157	18.90	.020	204.14	.220
1873.....	21.96	.024	66.22	.071	19.57	.021	148.98	.161	20.34	.022	190.80	.206
1874.....	24.70	.027	55.78	.060	17.08	.018	148.94	.161	20.32	.022	279.48	.302
1875.....	21.96	.024	52.10	.056	15.16	.016	138.68	.150	18.04	.019	251.60	.272
1876.....	18.06	.019	50.52	.055	15.96	.017	138.24	.149	17.14	.019	241.70	.261
1877.....	18.06	.019	47.46	.051	14.52	.016	138.98	.150	16.66	.018	207.74	.224
1878.....	17.62	.019	43.64	.047	12.65	.014	132.16	.143	14.46	.016	233.36	.252
1879.....	14.88	.016	36.16	.039	12.09	.013	126.14	.136	14.62	.016	198.74	.215
1880.....	16.62	.018	36.39	.039	13.10	.014	114.13	.123	14.63	.016	187.88	.203
1881.....	15.78	.017	39.10	.042	12.05	.013	109.97	.119	14.60	.016	194.86	.210
1882.....	19.53	.021	42.82	.046	11.89	.013	110.42	.119	15.18	.016	168.46	.182
1883.....	17.88	.019	40.71	.044	11.06	.012	118.60	.128	15.16	.016	191.65	.207
1884.....	17.81	.019	38.49	.042	10.42	.011	119.84	.129	12.73	.014	190.92	.206
1885.....	11.38	.012	34.59	.037	8.85	.010	116.23	.125	17.73	.019	164.93	.178
1886.....	12.13	.013	36.22	.039	7.77	.008	100.54	.109	14.38	.016	143.09	.154
1887.....	11.38	.012	35.82	.039	7.85	.008	89.89	.097	13.51	.015	152.82	.165
1888.....	11.18	.012	34.20	.037	9.09	.010	84.91	.092	14.60	.016	156.39	.169
1889.....	17.69	.019	27.25	.029	9.06	.010	88.02	.095	18.03	.019	135.19	.146
1890.....	17.81	.019	30.34	.033	9.96	.011	92.42	.100	17.78	.019	136.26	.152
1891.....	16.08	.017	35.16	.038	10.47	.011	90.17	.097	15.41	.017	134.74	.145

TABLE 67.—*Export prices of commodities in England from 1851 to 1891.*

[Supplementary to Hamburg prices.]

Year.	1. Yarn, cotton.		2. Piece goods, plain.		3. Piece goods, printed.		4. Stockings and socks.		5. Thread, sewing.	
	Per pound.	Per pound.	Per yard.	Per yard.	Per yard.	Per yard.	Per dozen pairs.	Per dozen pairs.	Per pound.	Per pound.
	d.		d.		d.		s.		s.	
1851.....	11. 06	\$0. 224	2. 92	\$0. 059	4. 26	\$0. 086	7. 80	\$1. 898	2. 07	\$0. 504
1852.....	10. 98	. 223	2. 91	. 059	4. 22	. 086	7. 14	1. 737	2. 20	. 535
1853.....	11. 22	. 228	3. 08	. 062	4. 31	. 087	6. 82	1. 660	2. 27	. 552
1854.....	10. 92	. 222	2. 85	. 058	4. 20	. 085	6. 35	1. 545	2. 27	. 552
1855.....	10. 44	. 212	2. 79	. 057	4. 01	. 081	6. 66	1. 621	2. 29	. 557
1856.....	10. 62	. 215	2. 88	. 059	4. 06	. 082	6. 11	1. 487	2. 17	. 528
1857.....	11. 81	. 239	2. 99	. 061	4. 18	. 085	5. 24	1. 275	2. 25	. 548
1858.....	11. 49	. 233	2. 90	. 059	4. 07	. 083	6. 43	1. 565	2. 33	. 567
1859.....	11. 81	. 239	3. 07	. 062	4. 23	. 086	5. 75	1. 399	2. 45	. 596
1860.....	12. 00	. 243	3. 09	. 063	4. 21	. 085	5. 93	1. 443	2. 35	. 572
1861.....	12. 54	. 254	3. 02	. 061	4. 11	. 083	5. 65	1. 375	2. 25	. 548
1862.....	15. 97	. 324	3. 66	. 074	4. 57	. 093	6. 36	1. 548	2. 71	. 659
1863.....	26. 01	. 528	4. 97	. 101	5. 71	. 116	6. 98	1. 698	3. 37	. 820
1864.....	28. 80	. 584	5. 79	. 117	6. 32	. 128	8. 15	1. 983	3. 58	. 871
1865.....	23. 98	. 486	5. 05	. 102	5. 81	. 118	7. 84	1. 908	3. 26	. 793
1866.....	23. 66	. 480	5. 09	. 103	5. 91	. 120	8. 32	2. 025	3. 36	. 818
1867.....	21. 11	. 428	4. 13	. 084	5. 28	. 107	7. 06	1. 718	3. 43	. 835
1868.....	20. 27	. 411	3. 67	. 074	4. 83	. 098	6. 63	1. 613	3. 37	. 820
1869.....	20. 04	. 406	3. 79	. 077	4. 91	. 100	6. 82	1. 660	3. 36	. 818
1870.....	18. 92	. 384	3. 55	. 072	4. 75	. 096	6. 79	1. 652	3. 32	. 808
1871.....	18. 66	. 378	3. 33	. 068	4. 71	. 096	6. 50	1. 582	3. 26	. 793
1872.....	18. 87	. 383	3. 51	. 071	4. 92	. 100	7. 08	1. 723	3. 48	. 847
1873.....	17. 76	. 360	3. 45	. 070	4. 78	. 097	7. 40	1. 801	3. 54	. 861
1874.....	15. 79	. 320	3. 22	. 065	4. 69	. 095	7. 09	1. 725	3. 53	. 859
1875.....	14. 66	. 297	3. 13	. 063	4. 77	. 097	6. 72	1. 635	3. 66	. 891
1876.....	13. 19	. 268	2. 83	. 057	4. 48	. 091	6. 59	1. 604	3. 66	. 891
1877.....	12. 85	. 261	2. 83	. 057	4. 31	. 087	6. 23	1. 516	3. 22	. 784
1878.....	12. 47	. 253	2. 76	. 056	4. 18	. 085	6. 48	1. 577	3. 15	. 767
1879.....	12. 33	. 250	2. 65	. 054	3. 91	. 079	6. 66	1. 621	3. 13	. 762
1880.....	13. 25	. 269	2. 73	. 055	3. 79	. 077	6. 55	1. 594	3. 17	. 771
1881.....	12. 39	. 251	2. 65	. 054	3. 68	. 075	5. 82	1. 416	2. 99	. 728
1882.....	12. 96	. 263	2. 71	. 055	3. 73	. 076	6. 21	1. 511	3. 10	. 754
1883.....	12. 25	. 248	2. 61	. 053	3. 62	. 073	6. 28	1. 528	3. 27	. 796
1884.....	12. 24	. 248	2. 47	. 050	3. 60	. 073	6. 25	1. 521	3. 37	. 820
1885.....	11. 58	. 235	2. 33	. 047	3. 47	. 070	6. 00	1. 460	3. 15	. 767
1886.....	10. 84	. 220	2. 21	. 045	3. 18	. 065	5. 53	1. 346	2. 99	. 728
1887.....	10. 81	. 219	2. 27	. 046	3. 17	. 064	5. 13	1. 248	2. 92	. 711
1888.....	10. 94	. 222	2. 27	. 046	3. 08	. 062	5. 22	1. 270	2. 93	. 713
1889.....	11. 13	. 226	2. 24	. 046	2. 97	. 060	5. 47	1. 331	3. 11	. 757
1890.....	11. 47	. 233	2. 30	. 047	3. 08	. 062	5. 46	1. 329	3. 31	. 805
1891.....	10. 47	. 212	2. 31	. 047	2. 88	. 059	5. 22	1. 270	3. 60	. 876

TABLE 67.—*Export prices of commodities in England from 1851 to 1891—Continued.*

[Supplementary to Hamburg prices.]

Year.	6. Glass, common bottles.		7. Yarn, linen.		8. Linen, plain.		9. Linen sail cloth and sails.		10. Yarns, woolen and worsted.	
	Per 112 pounds.	Per pound.	Per pound.	Per pound.	Per yard.	Per yard.	Per yard.	Per yard.	Per pound.	Per pound.
	<i>s.</i>		<i>d.</i>		<i>d.</i>		<i>d.</i>		<i>d.</i>	
1851.....	10. 60	\$0. 023	12. 12	\$0. 246	7. 02	\$0. 142	8. 94	\$0. 181	24. 29	\$0. 493
1852.....	10. 46	. 023	11. 44	. 232	6. 92	. 140	8. 97	. 182	24. 14	. 490
1853.....	10. 85	. 024	12. 11	. 246	7. 65	. 155	10. 85	. 220	25. 04	. 508
1854.....	11. 42	. 025	12. 81	. 260	7. 91	. 160	12. 24	. 248	23. 76	. 482
1855.....	10. 89	. 023	12. 32	. 250	7. 59	. 154	10. 85	. 220	22. 90	. 464
1856.....	11. 07	. 024	13. 05	. 265	7. 17	. 145	10. 95	. 222	24. 69	. 501
1857.....	11. 07	. 024	13. 71	. 278	7. 35	. 149	10. 46	. 212	27. 60	. 560
1858.....	11. 11	. 024	13. 08	. 265	7. 34	. 149	10. 45	. 212	28. 58	. 580
1859.....	10. 54	. 023	14. 73	. 299	7. 27	. 147	11. 56	. 234	31. 30	. 635
1860.....	10. 30	. 022	13. 85	. 281	7. 22	. 146	10. 98	. 223	32. 46	. 658
1861.....	10. 16	. 022	13. 91	. 282	7. 16	. 145	11. 89	. 241	30. 13	. 611
1862.....	10. 08	. 022	13. 65	. 277	6. 84	. 139	12. 28	. 249	32. 47	. 658
1863.....	10. 18	. 022	15. 80	. 320	7. 55	. 153	12. 58	. 255	36. 92	. 749
1864.....	10. 01	. 022	17. 90	. 363	8. 39	. 170	13. 67	. 277	40. 30	. 817
1865.....	9. 97	. 022	16. 54	. 335	8. 06	. 163	12. 73	. 258	40. 31	. 817
1866.....	10. 13	. 022	16. 95	. 344	8. 23	. 167	12. 75	. 259	41. 06	. 833
1867.....	9. 98	. 022	17. 29	. 351	7. 79	. 158	12. 88	. 261	37. 28	. 756
1868.....	9. 93	. 022	16. 91	. 343	7. 50	. 152	13. 39	. 272	34. 78	. 705
1869.....	9. 91	. 022	16. 19	. 328	7. 06	. 143	14. 20	. 288	35. 74	. 725
1870.....	9. 99	. 022	14. 42	. 292	7. 15	. 145	12. 65	. 257	33. 73	. 684
1871.....	9. 71	. 021	14. 69	. 298	7. 39	. 150	12. 94	. 262	33. 49	. 679
1872.....	9. 81	. 021	16. 40	. 333	7. 43	. 151	14. 29	. 290	36. 91	. 749
1873.....	10. 18	. 022	16. 51	. 335	7. 62	. 155	13. 97	. 283	37. 26	. 756
1874.....	10. 41	. 023	15. 17	. 308	7. 80	. 158	14. 41	. 292	38. 14	. 773
1875.....	11. 08	. 024	15. 95	. 323	7. 59	. 154	14. 36	. 291	38. 58	. 782
1876.....	11. 15	. 024	15. 62	. 317	7. 14	. 145	14. 37	. 291	34. 36	. 697
1877.....	10. 99	. 024	16. 13	. 327	6. 93	. 141	13. 71	. 278	32. 12	. 651
1878.....	10. 71	. 023	15. 76	. 320	7. 20	. 146	12. 96	. 263	30. 07	. 610
1879.....	10. 20	. 022	14. 82	. 301	7. 08	. 144	11. 69	. 237	26. 71	. 542
1880.....	10. 10	. 022	14. 25	. 289	7. 38	. 150	12. 15	. 246	30. 33	. 615
1881.....	9. 92	. 022	13. 91	. 282	7. 03	. 143	12. 01	. 244	26. 04	. 528
1882.....	9. 55	. 021	13. 71	. 278	6. 89	. 140	12. 44	. 252	25. 62	. 520
1883.....	9. 27	. 020	14. 36	. 291	6. 95	. 141	11. 73	. 238	23. 41	. 475
1884.....	9. 30	. 020	13. 95	. 283	6. 62	. 134	10. 95	. 222	23. 78	. 482
1885.....	9. 57	. 021	14. 26	. 289	6. 35	. 129	10. 83	. 220	24. 19	. 491
1886.....	9. 49	. 021	14. 12	. 286	5. 98	. 121	11. 09	. 225	23. 19	. 470
1887.....	9. 45	. 021	13. 77	. 279	6. 07	. 123	11. 01	. 223	23. 73	. 481
1888.....	9. 38	. 020	14. 48	. 294	5. 57	. 113	10. 51	. 213	22. 81	. 463
1889.....	9. 46	. 021	14. 54	. 295	5. 57	. 113	11. 05	. 224	22. 97	. 466
1890.....	9. 27	. 020	13. 58	. 275	5. 42	. 110	10. 58	. 215	23. 87	. 484
1891.....	9. 39	. 020	14. 52	. 295	5. 42	. 110	10. 71	. 217	22. 64	. 459

TABLE 67.—*Export prices of commodities in England from 1851 to 1891—Concluded.*

[Supplementary to Hamburg prices.]

Year.	11. Cloths, etc.		12. Flannels, etc.		13. Worsted stuffs.		14. Carpets, etc.	
	Peryard.	Peryard.	Peryard.	Peryard.	Peryard.	Peryard.	Peryard.	Peryard.
	<i>d.</i>		<i>d.</i>		<i>d.</i>		<i>d.</i>	
1851.....	24. 82	\$0. 503	14. 15	\$0. 287	9. 83	\$0. 199	35. 28	\$0. 715
1852.....	24. 56	. 498	13. 91	. 282	9. 26	. 188	32. 56	. 660
1853.....	26. 10	. 529	14. 63	. 297	10. 52	. 213	29. 60	. 600
1854.....	24. 43	. 495	13. 18	. 267	10. 06	. 204	29. 03	. 589
1855.....	26. 30	. 533	15. 25	. 309	9. 50	. 193	30. 52	. 619
1856.....	24. 34	. 494	14. 76	. 299	10. 07	. 204	32. 22	. 653
1857.....	24. 34	. 494	16. 01	. 325	10. 28	. 209	33. 06	. 670
1858.....	25. 89	. 525	15. 21	. 308	10. 42	. 211	28. 00	. 568
1859.....	29. 09	. 590	15. 35	. 311	11. 02	. 223	30. 88	. 626
1860.....	30. 12	. 611	15. 74	. 319	11. 32	. 230	31. 55	. 640
1861.....	29. 81	. 605	17. 80	. 361	11. 99	. 243	30. 01	. 609
1862.....	30. 36	. 616	18. 64	. 378	12. 93	. 263	29. 95	. 607
1863.....	34. 28	. 695	19. 59	. 397	12. 07	. 245	31. 09	. 630
1864.....	36. 74	. 745	19. 92	. 404	13. 84	. 281	34. 50	. 700
1865.....	37. 70	. 765	19. 55	. 396	13. 76	. 279	36. 00	. 730
1866.....	39. 15	. 794	19. 24	. 390	14. 04	. 285	38. 45	. 780
1867.....	40. 99	. 831	18. 54	. 376	14. 54	. 295	39. 62	. 803
1868.....	36. 66	. 743	18. 17	. 369	13. 99	. 284	35. 59	. 722
1869.....	36. 37	. 738	17. 68	. 359	14. 52	. 295	36. 45	. 739
1870.....	35. 17	. 713	17. 28	. 350	14. 03	. 285	35. 67	. 723
1871.....	37. 52	. 761	17. 55	. 356	14. 02	. 284	36. 10	. 732
1872.....	41. 19	. 835	17. 65	. 358	14. 54	. 295	38. 93	. 790
1873.....	41. 00	. 831	18. 10	. 367	12. 11	. 246	38. 64	. 784
1874.....	39. 53	. 802	19. 76	. 401	10. 93	. 222	38. 60	. 783
1875.....	39. 09	. 793	18. 47	. 375	10. 64	. 216	37. 00	. 750
1876.....	38. 25	. 776	17. 52	. 355	9. 90	. 201	34. 75	. 705
1877.....	35. 72	. 724	17. 58	. 357	9. 52	. 193	31. 52	. 639
1878.....	34. 53	. 700	16. 86	. 342	9. 28	. 188	30. 44	. 617
1879.....	31. 89	. 647	16. 59	. 336	8. 90	. 181	28. 83	. 585
1880.....	32. 34	. 656	16. 45	. 334	9. 15	. 186	29. 16	. 591
1881.....	32. 55	. 660	15. 18	. 308	9. 04	. 183	28. 78	. 584
1882.....	34. 18	. 693	15. 13	. 307	9. 65	. 196	28. 14	. 571
1883.....	38. 30	. 777	14. 82	. 301	9. 94	. 202	28. 24	. 573
1884.....	41. 42	. 840	13. 98	. 284	9. 64	. 196	26. 16	. 531
1885.....	40. 23	. 816	13. 08	. 265	9. 35	. 190	25. 74	. 522
1886.....	39. 56	. 802	12. 49	. 253	9. 25	. 188	25. 41	. 515
1887.....	40. 04	. 812	12. 27	. 249	8. 87	. 180	24. 27	. 492
1888.....	39. 56	. 802	11. 83	. 240	8. 63	. 175	24. 76	. 502
1889.....	40. 53	. 822	11. 65	. 236	8. 80	. 178	25. 24	. 512
1890.....	31. 76	. 644	12. 34	. 250	8. 69	. 176	24. 92	. 505
1891.....	30. 97	. 628	12. 42	. 252	8. 67	. 176	24. 84	. 504

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	1. Wheat.	2. Wheat flour.	3. Rye.	4. Rye flour.	5. Oats.	6. Barley.	7. Malt.	8. Buck- wheat.	9. Pease.	10. Beans.	11. Pota- toes. ^a
1851.....	85.49	86.51	112.75	111.92	129.03	83.68	70.54	79.44	89.37	125.14	82.16
1852.....	89.51	94.81	117.65	139.19	122.04	105.86	110.12	113.55	102.33	124.29	89.37
1853.....	108.33	113.49	135.29	150.30	139.25	103.35	105.95	143.93	135.35	152.26	116.58
1854.....	155.25	142.74	175.49	184.65	161.29	130.96	110.71	146.73	146.05	131.36	124.68
1855.....	160.49	156.22	190.19	205.25	154.84	127.20	145.24	145.33	145.58	156.21	129.01
1856.....	150.62	145.23	175.98	192.73	149.46	136.82	149.70	144.86	109.30	128.25	130.99
1857.....	115.74	115.15	125.49	183.43	138.17	123.43	136.61	132.71	139.53	107.91	95.50
1858.....	95.06	98.75	111.76	153.54	129.03	103.35	124.11	117.29	138.14	112.99	66.49
1859.....	101.23	95.02	114.71	147.88	128.49	111.30	105.36	99.07	134.88	115.54	74.95
1860.....	118.52	112.24	129.90	144.24	134.95	118.41	107.14	118.22	138.14	118.64	110.09
1861.....	126.54	120.75	127.94	160.81	131.18	118.41	121.73	121.96	136.74	118.93	137.30
1862.....	118.83	109.13	138.73	154.34	122.58	113.81	112.50	115.26	138.60	115.25	87.39
1863.....	102.47	92.95	125.00	128.48	104.30	106.28	111.01	104.67	111.63	102.82	86.31
1864.....	85.80	85.06	99.51	110.30	118.28	92.89	97.92	107.48	100.00	109.04	93.51
1865.....	88.89	82.17	111.27	120.40	138.17	110.04	92.86	108.41	116.74	125.99	94.60
1866.....	104.63	101.24	125.98	147.88	140.86	131.80	139.29	115.42	136.74	122.03	99.82
1867.....	146.30	120.95	174.02	177.37	153.23	138.91	146.43	122.43	145.12	120.34	126.95
1868.....	140.43	114.52	171.08	174.95	163.98	147.56	135.71	143.93	159.53	127.97	107.03
1869.....	107.41	103.94	143.63	141.82	156.99	143.10	131.25	139.72	145.12	113.56	101.80
1870.....	103.39	102.90	127.94	146.26	130.29	112.87	116.07	128.97	134.88	128.81	101.26
1871.....	123.25	110.30	152.78	143.57	139.61	127.89	119.25	124.45	141.55	114.78	113.51
1872.....	128.19	119.02	129.25	154.48	134.59	152.72	131.85	125.70	146.98	116.85	118.92
1873.....	133.44	126.28	148.37	169.43	147.85	159.14	142.06	137.69	172.56	135.59	118.74
1874.....	119.96	119.50	150.98	170.10	165.59	154.39	161.71	138.32	163.72	125.89	128.83
1875.....	105.45	98.13	135.95	152.86	158.42	152.30	148.81	132.71	160.31	111.86	119.82
1876.....	109.26	102.42	140.52	162.02	156.27	135.98	145.04	151.25	161.24	108.29	121.08
1877.....	125.10	109.06	144.77	161.21	151.25	146.02	147.92	139.10	155.97	119.40	138.74
1878.....	110.19	108.37	116.99	149.90	129.39	140.73	148.31	126.01	147.91	105.08	134.41
1879.....	109.88	108.78	118.46	144.78	125.99	152.72	140.97	134.58	149.92	114.41	142.34
1880.....	111.83	109.51	150.08	170.57	133.07	147.70	151.39	143.93	155.50	124.91	140.18
1881.....	114.25	115.21	161.44	172.79	141.13	145.68	148.02	128.27	161.94	122.98	112.61
1882.....	105.09	110.75	131.29	142.02	139.07	138.77	143.25	133.64	163.57	116.81	91.17
1883.....	95.99	99.80	118.30	121.01	123.12	121.12	142.96	169.78	142.79	118.60	110.81
1884.....	86.32	84.72	114.13	121.35	123.12	112.48	146.08	119.31	142.87	116.15	101.62
1885.....	78.86	78.39	99.75	113.27	123.57	99.65	137.50	126.71	137.05	111.21	98.56
1886.....	77.47	72.96	90.28	103.30	117.03	108.58	131.50	107.32	116.67	94.35	98.20
1887.....	77.31	71.54	82.19	95.89	98.66	90.86	134.03	90.34	116.74	96.61	97.30
1888.....	80.20	73.65	87.91	83.16	90.95	102.58	122.92	93.22	121.09	98.59	121.98
1889.....	73.77	70.06	88.48	101.08	106.81	98.68	133.68	98.75	116.67	98.35	117.12
1890.....	76.44	73.37	103.92	114.48	115.50	96.51	138.89	96.50	113.10	103.86	123.42
1891.....	96.97	83.68	141.42	151.52	123.66	100.91	148.76	120.25	130.31	101.41	156.94

^a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—Continued.*

[1847 to 1850=100.]

Year.	12. Hops.	13. Clover seed.	14. Rape- seed.	15. Rape- seed oil.	16. Linseed oil.	17. Oil cake.	18. Raw sugar.	19. Refined sugar.	20. Spirits from grain or pota- toes.	1-20. Total.
1851.....	149.73	112.97	84.95	87.43	113.77	87.82	93.30	91.55	102.47	99.00
1852.....	168.45	132.93	91.90	91.81	103.49	96.15	88.44	89.44	142.86	110.71
1853.....	218.45	148.94	110.15	93.96	105.45	114.10	101.71	100.00	166.33	128.18
1854.....	314.30	167.62	114.12	115.55	129.50	128.85	104.07	97.78	228.06	150.49
1855.....	241.24	172.45	165.97	147.31	137.20	148.08	108.94	117.11	222.52	158.82
1856.....	140.17	191.81	140.97	131.76	134.33	139.74	140.47	136.11	211.28	149.03
1857.....	144.59	178.61	128.01	132.75	136.69	140.38	158.87	156.81	171.87	138.11
1858.....	132.75	169.55	124.77	110.34	110.28	142.31	116.16	129.67	112.04	119.92
1859.....	185.23	183.49	102.78	98.68	102.57	126.28	113.93	123.23	125.02	119.48
1860.....	332.35	167.76	113.89	110.01	102.06	114.10	117.87	119.11	147.36	133.75
1861.....	221.59	160.07	117.36	105.38	111.51	113.46	97.63	118.16	161.67	131.46
1862.....	171.06	151.61	135.88	123.90	135.66	141.67	97.24	112.14	140.42	126.80
1863.....	226.27	146.46	120.37	117.37	147.69	137.18	96.45	110.24	124.52	120.12
1864.....	259.36	143.70	121.99	109.43	130.73	121.79	119.32	126.93	124.71	117.89
1865.....	282.35	204.42	129.63	114.81	120.66	161.54	99.34	108.66	112.70	126.48
1866.....	364.04	195.58	116.44	116.71	137.31	134.62	95.27	111.09	116.12	137.64
1867.....	291.58	223.55	115.05	99.75	131.96	134.62	96.45	111.72	151.00	146.38
1868.....	206.22	176.94	105.79	90.98	118.50	169.87	103.55	118.16	155.15	141.59
1869.....	183.16	151.61	120.83	95.78	110.69	168.59	119.84	126.29	142.92	132.40
1870.....	207.75	177.18	134.49	122.83	114.18	174.36	113.80	121.12	125.25	131.23
1871.....	320.86	201.69	141.74	111.22	120.09	161.32	159.83	130.94	136.59	144.76
1872.....	313.03	188.19	122.62	103.14	123.71	185.47	116.08	133.51	139.12	144.17
1873.....	315.55	156.92	108.18	88.01	119.84	161.11	112.22	123.86	147.36	146.21
1874.....	425.73	165.90	98.77	91.34	108.39	158.33	110.29	114.36	147.77	150.99
1875.....	322.04	172.71	112.11	90.49	92.15	171.79	101.40	109.22	114.76	138.16
1876.....	309.96	209.75	120.45	94.54	96.20	173.93	104.86	107.60	110.45	141.06
1877.....	280.79	213.74	127.78	102.70	105.52	171.58	123.48	121.40	121.32	145.34
1878.....	217.85	171.17	113.12	93.38	101.23	180.98	121.73	107.88	125.28	132.50
1879.....	268.36	157.22	102.39	81.97	99.08	165.17	112.22	101.30	127.87	132.92
1880.....	261.50	162.45	92.44	79.13	102.86	160.90	112.16	106.18	145.87	138.11
1881.....	255.58	151.85	107.80	80.81	99.45	165.92	110.75	104.72	148.78	137.50
1882.....	412.77	158.91	113.89	80.14	93.88	159.62	108.13	102.11	124.17	138.45
1883.....	517.19	200.50	119.02	98.68	85.53	149.36	101.99	98.29	131.68	143.33
1884.....	348.45	173.84	95.72	88.60	78.81	141.56	80.29	82.35	119.16	123.85
1885.....	242.99	155.52	90.24	74.57	84.87	130.56	58.23	68.32	105.26	110.75
1886.....	213.34	145.86	93.98	66.50	76.89	117.31	52.65	65.70	76.24	101.31
1887.....	198.30	137.32	86.19	69.99	74.24	120.51	55.19	57.95	74.50	96.28
1888.....	209.21	136.14	92.25	69.45	68.14	128.31	52.91	65.86	65.00	98.18
1889.....	206.04	143.85	96.84	71.82	75.56	135.79	73.30	71.28	63.35	102.06
1890.....	267.41	128.12	98.92	80.07	83.68	132.26	61.21	68.97	73.93	107.53
1891.....	267.38	142.16	97.07	73.20	82.91	134.29	62.44	67.11	115.24	119.88

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—Continued.*

[1847 to 1850 = 100.]

Year.	21. Beef. ^a	22. Veal. ^a	23. Mut- ton. ^a	24. Pork. ^a	25. Milk. ^a	26. Butter. ^a	27. Cheese.	28. Tallow.	29. Lard.	30. Hides.	31. Calf skins.
1851	88.89	86.42	102.15	115.12	95.71	101.67	98.42	85.46	108.05	107.25	104.23
1852	80.56	79.01	102.15	115.12	95.71	101.67	103.16	95.18	114.24	101.03	89.35
1853	86.11	88.89	102.15	115.12	95.71	128.33	115.36	118.92	123.71	123.17	107.12
1854	90.28	91.36	102.15	115.12	95.71	139.17	127.48	143.90	124.81	130.98	135.54
1855	109.72	106.17	102.15	127.91	95.71	145.00	134.79	131.70	125.64	134.99	130.42
1856	105.56	102.47	102.15	123.26	95.71	160.83	131.17	126.22	130.93	154.79	153.58
1857	100.00	101.23	102.15	117.44	95.71	155.00	136.37	132.21	135.50	207.81	188.50
1858	100.00	101.23	102.15	111.63	95.71	162.50	131.10	116.51	112.50	141.67	132.69
1859	90.28	91.36	102.15	104.65	95.71	153.33	129.89	128.78	111.21	161.72	179.96
1860	88.11	88.89	102.15	109.30	95.71	165.83	135.24	130.53	121.33	171.67	200.69
1861	95.83	91.36	102.15	109.30	85.71	142.50	124.15	125.35	115.08	144.12	153.73
1862	109.72	101.23	112.90	122.09	100.00	138.33	123.12	113.00	95.43	138.72	144.23
1863	106.94	97.53	113.98	122.09	85.71	130.00	135.92	100.00	81.38	123.79	160.46
1864	111.11	102.47	113.98	122.09	85.71	150.00	129.29	95.40	104.77	127.58	176.46
1865	122.22	125.93	89.25	122.09	157.14	162.50	132.38	101.17	144.39	119.50	170.50
1866	133.33	128.40	107.53	112.79	142.86	159.17	139.53	100.29	127.58	119.35	155.96
1867	141.67	128.40	106.45	108.14	142.86	146.67	144.28	112.42	111.79	124.03	160.62
1868	136.11	132.10	108.60	117.44	157.14	180.83	136.82	109.20	133.18	138.93	164.81
1869	138.89	129.63	112.90	130.23	157.14	178.33	145.18	108.84	139.30	125.97	159.62
1870	138.89	125.93	119.35	122.09	142.86	156.67	138.25	107.83	134.41	134.83	159.77
1871	150.00	137.04	126.88	108.14	142.86	170.00	143.32	107.01	110.07	155.92	171.29
1872	152.78	153.09	160.22	124.42	171.43	165.83	161.14	105.31	86.79	181.84	192.41
1873	169.44	153.09	116.13	137.21	171.43	190.00	161.05	102.53	92.91	187.74	191.32
1874	165.28	170.37	131.18	127.33	171.43	215.83	159.18	100.39	113.79	178.43	173.53
1875	162.50	148.77	140.86	136.05	200.00	200.00	160.00	105.95	131.21	163.50	154.21
1876	170.83	177.78	163.44	126.74	185.71	217.50	160.09	107.04	120.06	133.89	123.95
1877	173.61	187.65	160.22	127.91	200.00	195.00	174.50	104.60	105.15	135.50	112.55
1878	172.92	179.01	155.91	118.60	200.00	182.50	154.57	99.46	83.81	125.59	103.21
1879	158.33	170.37	150.54	116.28	185.71	168.33	145.53	86.41	78.11	125.06	112.68
1880	168.06	174.07	153.76	132.56	171.43	193.33	150.92	84.73	90.29	140.25	136.17
1881	151.39	180.25	155.91	144.19	171.43	200.83	153.64	89.88	120.40	143.05	125.42
1882	163.89	181.48	162.37	134.88	171.43	200.00	143.30	105.97	125.34	140.16	126.04
1883	165.28	186.42	174.19	126.74	171.43	191.67	147.77	109.34	106.28	140.54	124.87
1884	161.11	187.65	156.99	117.44	171.43	190.00	144.23	92.38	86.18	140.68	120.92
1885	150.00	185.19	141.94	117.44	171.43	176.67	130.23	84.99	72.97	141.33	122.00
1886	150.00	183.95	146.24	125.58	157.14	167.50	128.11	69.27	69.15	128.24	115.66
1887	144.44	186.42	133.23	119.77	142.86	172.50	130.52	68.15	74.79	124.40	104.28
1888	140.28	192.59	138.71	118.60	142.86	180.00	143.65	68.35	91.65	112.27	94.76
1889	148.61	182.72	137.63	139.53	142.86	197.50	140.44	75.80	82.14	108.95	81.42
1890	156.94	186.42	147.31	147.67	157.14	183.33	142.67	68.09	72.71	104.25	88.83
1891	163.89	186.42	135.48	139.53	157.14	187.50	149.40	68.05	71.36	103.64	86.73

^a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68.--Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—Continued.

[1847 to 1850=100.]

Year.	32. Leath- er.	33. Horse- hair.	34. Bris- tles.	35. Feath- ers.	36. Bone.	37. Ox horns.	38. Mucil- age.	39. Eggs. (a)	40. Her- ring.	41. Cured fish.	42. Fish oil.	21-42. Total.
1851.....	114.99	136.07	116.54	108.52	105.26	126.03	99.20	123.28	90.64	95.24	119.14	110.38
1852.....	116.17	105.47	120.32	115.40	107.52	136.76	96.57	123.28	126.51	103.17	118.50	106.68
1853.....	100.41	136.61	139.76	116.22	115.79	140.29	97.21	123.28	125.10	109.92	119.52	114.94
1854.....	108.48	122.57	176.68	104.82	119.55	128.09	114.05	123.28	121.98	122.62	126.14	121.12
1855.....	128.40	95.44	137.03	117.61	136.09	104.71	127.37	123.28	122.66	133.73	147.55	123.54
1856.....	141.20	151.00	119.23	114.65	133.83	115.29	118.12	123.28	132.55	124.40	147.19	127.61
1857.....	162.87	165.43	136.94	112.15	140.60	144.41	167.52	123.28	163.84	146.63	148.41	140.18
1858.....	140.52	140.28	125.13	109.20	130.08	171.18	162.73	123.28	135.53	127.98	120.90	127.02
1859.....	157.23	150.69	126.67	111.10	134.59	177.50	141.10	123.28	144.54	143.06	116.28	130.69
1860.....	166.23	144.97	179.07	102.36	115.04	201.62	129.85	123.28	130.51	130.16	112.03	133.75
1861.....	140.56	123.11	134.30	103.25	119.55	173.09	140.70	123.28	147.85	135.52	114.96	124.79
1862.....	153.90	122.33	131.79	109.08	119.55	158.82	126.58	138.79	135.70	172.62	130.18	127.19
1863.....	155.57	125.20	105.08	102.99	123.31	157.94	121.79	132.47	128.99	163.29	156.25	124.12
1864.....	166.08	116.43	150.52	97.53	121.05	145.88	116.12	136.21	128.94	148.81	196.21	129.21
1865.....	162.88	109.59	142.25	107.44	119.55	168.38	119.15	120.69	149.53	178.37	150.23	135.23
1866.....	184.19	98.42	156.80	108.52	124.81	174.26	117.64	126.15	159.56	175.40	131.50	135.64
1867.....	134.52	124.46	141.52	104.97	127.07	203.97	109.42	119.83	152.40	138.69	134.76	132.68
1868.....	111.62	134.85	119.61	111.10	113.53	173.38	116.68	125.86	151.60	145.44	117.70	133.48
1869.....	127.36	158.96	124.98	115.78	146.37	235.49	168.16	129.60	125.23	172.62	119.89	143.25
1870.....	128.76	149.76	155.31	135.29	154.89	179.41	132.80	129.31	126.27	161.51	130.91	139.32
1871.....	119.80	197.65	159.61	131.81	150.63	169.71	143.55	142.24	148.05	167.72	117.74	144.14
1872.....	138.94	163.45	206.44	135.03	163.41	206.42	184.73	152.30	143.36	155.22	123.46	155.82
1873.....	126.92	154.52	231.57	152.97	160.15	158.43	185.69	164.94	153.58	174.87	111.37	156.72
1874.....	148.35	131.63	204.89	152.72	176.19	183.68	168.45	159.48	157.53	171.76	109.27	157.76
1875.....	116.08	144.90	207.35	185.89	194.24	206.23	155.24	163.51	154.86	146.76	110.69	158.59
1876.....	121.55	114.78	216.66	165.79	168.92	202.94	136.37	155.75	163.36	185.58	107.83	155.79
1877.....	114.16	98.17	206.21	132.29	160.40	240.25	121.89	150.86	176.40	173.74	104.19	152.51
1878.....	99.00	94.50	181.69	118.58	152.13	192.70	116.31	154.31	163.70	169.58	95.58	141.53
1879.....	100.35	89.83	198.92	130.93	128.07	190.93	121.07	148.56	185.09	151.79	84.35	137.60
1880.....	114.38	104.89	217.59	119.32	141.10	291.37	128.77	155.75	160.35	129.73	81.68	147.30
1881.....	119.36	96.48	215.48	115.86	142.23	286.37	123.68	162.36	168.40	158.47	101.52	151.21
1882.....	120.88	119.51	228.92	100.95	160.53	258.90	138.73	152.30	176.44	190.15	111.50	155.17
1883.....	136.75	133.05	233.01	111.36	170.18	211.67	138.04	153.16	180.64	208.16	120.19	156.40
1884.....	140.93	135.53	240.70	108.28	154.89	212.92	140.54	154.02	159.36	189.35	100.28	150.26
1885.....	125.39	125.24	211.43	100.69	127.94	209.75	143.68	148.85	144.64	174.54	83.54	140.45
1886.....	127.77	106.78	202.84	97.90	106.39	220.56	126.44	149.43	131.26	154.37	73.01	133.53
1887.....	125.42	111.62	217.01	98.27	116.17	190.78	130.34	135.06	114.96	148.71	68.96	129.93
1888.....	116.62	182.00	191.81	98.69	114.29	163.33	133.13	146.55	124.84	160.55	66.96	128.97
1889.....	128.94	105.15	198.68	87.56	113.16	194.63	123.26	143.68	121.38	157.77	69.01	130.95
1890.....	136.06	106.60	208.73	85.83	132.96	135.74	111.36	156.61	123.26	145.50	58.69	129.85
1891.....	129.98	100.27	219.45	90.64	116.04	150.37	117.73	143.68	144.05	164.95	70.22	131.66

a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—Continued.*

[1847 to 1850 = 100.]

Year.	43. Rai- sins.	44. Cur- rants.	45. Al- monds.	46. Prunes.	47. Olive oil.	48. French wine, exclus- ive of cham- pagne.	49. Cham- pagne.	43-49. Total.	50. Coffee.	51. Cocoa.	52. Tea.
1851	83.29	67.96	111.57	95.45	73.48	100.83	97.39	90.00	110.84	89.45	103.82
1852	80.06	105.51	110.87	81.97	91.05	103.62	94.22	95.33	110.84	98.98	94.62
1853	123.60	199.50	116.52	86.06	114.79	136.56	96.44	124.78	125.57	104.53	102.57
1854	128.93	57.32	115.99	89.55	103.12	199.38	96.08	112.91	127.18	104.44	99.69
1855	121.07	160.58	119.40	118.18	95.01	278.99	100.95	142.03	124.19	142.00	90.91
1856	190.17	232.99	120.53	118.79	89.58	237.68	102.62	155.95	129.05	158.56	103.41
1857	220.93	185.86	140.09	134.70	102.27	288.80	112.57	169.32	142.31	254.30	115.80
1858	145.93	100.88	114.34	101.06	81.25	195.65	105.75	120.69	122.98	163.09	96.91
1859	137.78	98.00	98.93	112.12	86.46	154.46	106.02	113.40	143.85	163.64	115.99
1860	128.09	86.48	97.92	103.48	106.63	215.18	104.76	120.36	164.81	199.35	130.50
1861	123.17	83.60	104.05	108.64	105.08	227.86	102.13	122.08	166.02	178.08	102.26
1862	119.38	79.85	95.68	92.12	101.76	203.51	105.23	113.93	182.36	175.21	115.57
1863	128.51	80.60	104.21	99.85	98.19	188.80	104.66	114.97	190.21	175.49	121.22
1864	116.01	79.85	107.57	107.12	102.66	151.41	101.27	109.41	187.14	199.26	108.14
1865	112.08	73.59	116.90	119.70	98.47	172.64	104.67	114.01	176.38	184.46	99.96
1866	149.44	78.97	138.33	135.61	124.14	142.97	114.65	126.30	164.24	204.53	96.11
1867	141.71	73.34	138.97	130.76	121.64	168.30	110.39	126.44	147.01	182.24	118.19
1868	118.54	63.45	133.10	99.39	135.47	185.62	109.66	120.75	130.10	149.58	116.99
1869	105.34	67.58	124.31	116.21	105.10	179.78	110.73	115.58	133.66	145.88	106.94
1870	136.38	94.62	130.12	95.76	107.25	155.51	110.36	118.57	135.60	146.99	95.72
1871	125.66	96.29	119.30	123.69	101.61	176.34	118.02	122.99	150.70	154.09	95.19
1872	122.05	95.08	105.05	134.04	96.45	207.32	117.52	125.36	197.20	170.86	102.03
1873	135.58	84.73	100.64	166.87	84.70	232.17	120.39	132.15	239.19	148.23	96.97
1874	141.34	92.87	109.91	184.14	87.95	272.75	126.21	145.02	250.92	152.45	96.01
1875	155.81	93.62	120.70	115.45	93.18	217.21	123.50	131.35	243.64	158.59	99.05
1876	129.31	103.92	119.81	125.45	95.17	203.66	123.52	128.69	224.51	201.82	96.63
1877	111.70	102.96	134.72	151.82	102.72	255.91	124.00	140.55	232.17	211.81	82.42
1878	86.89	72.22	149.04	131.62	104.74	280.91	114.99	134.34	201.48	246.93	77.50
1879	111.28	85.15	161.39	126.62	98.26	273.19	117.81	139.10	183.68	304.38	86.70
1880	128.35	93.93	145.28	139.60	97.45	353.88	124.09	154.65	193.03	202.93	82.08
1881	145.97	89.05	131.93	109.85	88.38	333.19	127.61	146.57	167.83	212.75	75.01
1882	137.55	95.70	121.99	116.69	39.31	289.02	124.37	139.23	135.29	216.90	74.33
1883	113.79	91.99	140.95	136.19	80.93	301.92	130.86	142.38	135.10	244.79	72.74
1884	96.30	73.65	126.79	96.04	86.20	241.16	120.98	120.16	134.61	229.03	73.59
1885	119.43	78.10	116.18	91.21	87.37	255.11	118.84	123.78	122.98	246.90	71.45
1886	110.60	89.70	116.16	81.57	81.82	265.40	111.84	122.44	134.16	212.43	70.41
1887	90.15	92.22	119.74	82.10	88.17	265.29	114.21	121.81	207.59	220.29	61.68
1888	87.50	72.09	115.70	76.64	92.15	285.47	111.05	120.09	182.46	211.24	71.43
1889	89.98	67.08	130.83	98.08	87.25	295.33	124.83	127.57	214.90	196.48	70.72
1890	114.23	77.01	149.09	98.23	87.08	316.16	128.46	138.61	232.03	203.67	68.68
1891	109.64	83.31	153.53	95.15	96.66	303.12	138.54	139.99	220.47	221.72	74.31

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—Continued.*

[1847 to 1850 = 100.]

Year.	53. Pepper.	54. Pi- mento.	55. Cassia.	56. Rice.	57. Sago.	58. Arrack.	59. Rum.	60. To- bacco.	61. Indigo.	62. Cochi- neal.	63. Log- wood.
1851	114.38	106.18	117.60	80.75	92.86	96.51	100.46	112.25	112.23	79.24	83.96
1852	129.63	104.88	127.49	69.52	80.75	94.11	94.02	103.02	118.96	77.36	89.30
1853	149.13	116.51	135.31	94.12	97.58	113.94	126.93	116.87	127.93	96.24	127.27
1854	166.99	112.74	132.38	85.92	95.28	129.57	134.64	116.87	123.45	88.64	140.11
1855	153.27	103.58	130.32	96.79	107.38	167.31	147.99	125.55	127.92	84.90	122.46
1856	175.82	95.90	118.97	74.87	107.38	163.46	138.43	149.08	127.93	83.02	124.60
1857	165.90	86.09	148.13	73.98	104.24	158.77	169.51	159.42	152.63	79.21	108.56
1858	146.30	62.74	113.17	60.07	80.63	106.85	120.25	129.00	153.39	79.50	91.98
1859	151.63	63.52	95.11	65.60	80.39	90.38	137.28	144.64	153.63	76.63	97.86
1860	145.64	67.49	104.75	72.73	83.17	92.67	142.12	147.97	163.11	61.24	107.49
1861	137.47	58.26	102.65	73.26	83.17	112.62	136.36	167.06	172.31	60.32	119.79
1862	136.60	60.21	99.51	69.34	95.28	96.75	111.97	176.97	188.83	53.15	123.53
1863	130.50	53.90	105.20	68.09	86.92	123.56	115.88	139.59	149.70	59.21	107.49
1864	127.02	47.53	100.17	68.27	91.28	122.96	150.52	138.35	155.64	70.81	103.74
1865	118.41	51.24	99.86	73.62	83.29	113.82	130.49	116.81	151.08	73.48	110.16
1866	114.71	50.33	111.88	67.56	76.15	109.62	135.90	107.27	169.35	77.70	119.25
1867	116.99	40.96	119.11	70.94	77.00	122.12	140.28	119.09	169.25	75.82	94.65
1868	96.95	46.23	133.15	70.05	88.62	135.82	156.04	125.25	181.88	85.36	119.25
1869	151.63	45.32	151.76	57.04	87.89	152.76	171.46	153.47	201.06	68.79	137.43
1870	173.86	45.32	136.33	65.24	75.30	140.02	178.25	138.49	202.07	61.41	116.04
1871	200.04	43.15	124.02	66.43	73.04	121.15	156.85	142.96	189.09	60.71	117.65
1872	236.60	66.49	104.54	67.80	73.33	110.10	171.69	168.33	187.58	53.92	127.27
1873	260.82	60.29	90.78	60.67	75.71	141.71	192.87	152.22	164.40	55.27	126.92
1874	246.84	67.10	77.05	68.39	81.76	176.28	204.37	152.11	171.15	51.12	117.47
1875	204.28	65.06	65.68	57.34	77.32	169.03	183.31	146.28	168.28	45.51	146.17
1876	156.50	77.22	59.67	59.06	72.92	174.00	200.00	151.83	151.11	49.59	138.86
1877	150.62	85.22	58.10	63.04	80.06	176.16	208.71	145.50	152.38	55.48	132.09
1878	128.36	95.41	50.01	66.61	84.83	153.65	197.70	138.07	146.00	50.99	122.64
1879	131.25	103.86	48.19	62.45	82.36	116.59	188.38	130.17	144.55	56.19	129.59
1880	157.64	92.87	44.06	58.88	74.41	133.55	206.16	140.03	151.27	58.32	130.66
1881	192.03	98.71	49.67	58.67	76.41	115.71	213.50	133.85	161.54	42.81	122.55
1882	199.87	84.60	43.41	53.00	68.16	184.84	200.36	119.35	157.95	34.69	125.94
1883	234.84	68.02	39.98	57.19	59.32	96.17	214.88	115.20	151.10	25.88	118.98
1884	265.67	56.07	37.06	54.78	53.93	148.08	167.63	126.79	141.90	24.40	119.88
1885	276.87	53.31	31.67	51.60	57.65	134.98	199.06	128.70	126.35	30.84	112.57
1886	289.09	50.70	29.83	48.63	54.48	152.66	208.75	130.86	129.21	29.59	111.41
1887	253.00	51.78	25.57	50.30	54.30	158.15	208.65	118.21	125.20	25.89	112.75
1888	290.56	54.23	22.01	49.52	63.42	139.00	201.55	117.53	121.31	23.32	132.17
1889	246.55	65.64	25.72	50.08	66.10	142.05	197.47	127.62	138.98	22.60	145.19
1890	205.74	64.97	22.96	52.50	54.98	154.71	226.20	134.24	107.55	22.45	140.73
1891	158.68	58.40	22.81	54.04	53.09	145.51	180.57	125.49	123.97	22.24	123.98

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Sætbeer—Continued.*

[1847 to 1850=100.]

Year.	64. Red- wood.	65. Ma- hogany.	66. Cane.	67. Palm oil.	68. Ivory.	50-68. Total.	69. Coal.	70. Pig iron.	71. Bar iron.	72. Steel.	73. Lead.
1851	96.05	110.50	106.01	86.80	98.97	99.94	87.79	75.00	80.91	91.42	100.82
1852	94.65	110.50	105.23	89.18	106.08	99.95	87.60	78.23	82.94	102.90	90.95
1853	98.60	107.67	116.47	110.91	122.13	115.28	113.86	106.45	112.12	89.41	117.11
1854	96.74	109.59	101.94	146.47	132.60	118.17	131.28	140.32	128.18	115.50	129.28
1855	102.56	89.32	106.59	130.98	145.32	121.02	120.79	127.42	114.85	144.26	141.28
1856	103.02	109.44	116.28	124.66	151.63	123.95	119.39	123.39	121.82	130.10	130.59
1857	131.40	127.95	172.29	136.30	179.32	140.32	114.24	118.55	121.21	128.21	127.96
1858	89.77	93.97	158.72	116.59	156.55	112.76	100.32	92.74	102.42	112.60	112.99
1859	97.91	108.49	133.72	127.50	151.33	115.74	99.36	87.90	102.42	108.03	121.38
1860	84.42	123.84	121.90	122.91	149.28	120.28	96.50	87.90	98.48	102.56	116.28
1861	73.49	107.12	119.38	123.92	133.06	117.19	101.27	83.06	93.03	103.79	114.14
1862	66.28	88.22	136.48	115.38	136.80	117.28	101.91	84.68	95.15	107.80	109.05
1863	61.63	126.58	172.09	98.23	134.99	116.87	95.87	98.39	98.48	125.53	108.72
1864	65.12	189.86	188.76	110.54	163.53	125.74	102.42	101.61	111.82	108.92	112.34
1865	72.79	127.67	172.87	110.36	139.23	146.11	103.94	99.19	108.79	108.70	107.03
1866	79.07	120.55	164.15	118.24	153.56	117.90	103.69	95.16	106.06	102.01	112.17
1867	84.19	90.68	134.88	122.46	146.83	114.35	101.84	93.55	102.12	88.29	104.61
1868	96.28	72.88	142.25	125.39	146.15	116.75	99.05	90.32	94.55	89.19	111.18
1869	82.79	67.95	140.31	126.86	146.98	122.10	96.19	88.71	93.64	90.19	108.55
1870	64.65	101.92	144.19	120.81	148.40	120.56	96.38	93.55	99.39	91.42	112.34
1871	59.77	94.52	138.89	157.47	138.52	120.22	98.86	97.58	107.68	108.44	107.73
1872	54.34	124.11	178.04	116.25	164.36	130.25	138.14	168.55	139.39	123.23	147.20
1873	57.20	117.72	193.22	113.41	204.32	134.32	174.57	193.01	172.98	106.13	172.92
1874	85.74	101.92	191.28	108.16	197.95	136.74	140.94	137.90	113.54	83.83	123.57
1875	78.22	92.33	182.75	107.39	219.95	132.11	114.88	110.22	119.29	73.62	137.66
1876	64.57	103.93	163.31	112.99	206.45	129.74	105.28	108.60	103.64	101.11	131.36
1877	60.78	99.27	169.90	118.73	193.16	130.29	97.90	96.51	94.55	89.56	120.94
1878	61.47	86.21	159.04	118.18	201.56	125.61	88.68	86.02	88.28	85.56	112.17
1879	64.81	85.39	153.55	104.89	166.54	123.34	83.28	76.88	79.60	69.97	102.25
1880	76.20	94.34	176.78	99.59	162.74	122.92	83.66	87.90	83.59	70.18	101.45
1881	66.24	90.91	179.17	96.30	175.74	122.60	80.55	79.84	80.86	69.03	85.39
1882	60.27	98.26	182.24	97.22	190.24	122.47	80.48	83.33	88.79	68.52	83.17
1883	57.95	102.24	181.17	105.64	202.13	120.17	80.42	80.11	82.37	64.79	78.89
1884	51.59	79.45	166.09	100.67	208.94	117.90	79.59	77.55	76.67	68.89	68.75
1885	43.18	73.15	172.06	83.32	194.77	116.39	78.26	69.09	72.02	63.94	70.97
1886	46.01	77.03	165.41	69.34	183.48	115.45	75.52	64.11	68.59	58.21	71.71
1887	46.86	79.77	169.35	65.35	180.32	116.59	74.06	67.74	70.00	48.51	86.92
1888	48.76	87.08	150.23	61.30	184.70	116.41	74.32	65.86	71.11	53.14	89.99
1889	44.50	100.05	151.71	68.16	181.00	118.82	83.92	82.93	82.58	66.35	102.69
1890	43.84	111.42	149.45	71.45	200.08	119.35	100.89	86.42	86.36	65.66	133.94
1891	54.15	87.35	151.81	73.62	205.45	113.56	103.75	75.27	84.70	71.22	124.31

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—Continued.*

[1847 to 1850=100.]

Year.	74. Zinc.	75. Tin.	76. Copper.	77. Quick- silver.	78. Sul- phur, raw.	79. Salt- petre, raw, Chile.	80. Salt.	81. Lime.	82. Cement.	69-82. Total.
1851.....	93.24	100.49	100.94	87.96	110.76	107.73	89.33	92.59	120.78	95.70
1852.....	107.53	108.73	106.66	74.16	100.00	114.75	66.67	92.59	125.97	95.76
1853.....	135.33	154.08	129.83	59.76	97.31	132.79	77.33	87.04	116.88	109.24
1854.....	142.47	148.09	135.21	52.24	79.37	132.08	70.67	92.59	125.97	115.95
1855.....	145.37	144.38	135.38	47.87	82.96	177.52	70.67	92.59	122.08	119.10
1856.....	157.72	166.18	139.71	46.29	78.92	120.37	84.00	92.59	122.08	116.65
1857.....	181.85	185.92	132.90	49.93	138.57	138.17	90.67	92.59	123.38	124.58
1858.....	150.58	152.55	119.50	48.79	122.87	116.39	84.00	92.59	118.18	109.04
1859.....	134.36	170.71	112.63	46.24	127.35	107.49	86.67	103.70	111.69	108.57
1860.....	127.99	172.77	118.74	53.01	152.47	100.23	80.00	100.00	114.29	108.66
1861.....	115.83	153.03	111.65	52.07	116.59	92.74	82.67	98.15	115.58	102.40
1862.....	115.06	148.95	109.98	53.10	103.14	108.20	81.33	96.30	111.69	101.88
1863.....	115.06	161.95	103.87	52.00	92.38	104.45	72.00	101.85	110.39	102.92
1864.....	138.80	139.18	113.33	61.39	109.87	114.29	48.00	96.30	105.19	104.53
1865.....	134.94	123.90	103.63	53.49	100.90	97.42	44.00	92.59	106.49	98.93
1866.....	141.12	112.28	108.76	50.56	101.79	90.16	38.67	85.19	103.90	96.54
1867.....	138.61	116.14	97.59	53.53	95.07	84.78	38.67	83.33	107.79	93.28
1868.....	129.34	120.41	89.39	49.87	96.41	94.38	46.67	77.78	96.10	91.76
1869.....	133.20	150.90	90.44	53.42	108.97	118.50	42.67	79.63	93.51	96.33
1870.....	124.71	160.97	87.89	59.15	112.11	122.48	53.33	87.04	94.81	99.68
1871.....	115.51	172.57	90.47	72.16	100.30	121.31	65.33	74.07	93.94	101.85
1872.....	147.68	194.39	110.50	86.12	95.52	115.85	60.89	74.07	101.30	121.63
1873.....	179.02	185.73	111.36	101.24	86.40	113.04	80.89	155.56	135.50	140.60
1874.....	148.26	132.82	103.37	155.87	103.14	93.52	80.89	96.30	119.91	116.70
1875.....	154.89	124.00	106.49	94.05	102.99	90.32	62.67	102.47	111.26	107.49
1876.....	163.77	115.17	105.61	83.58	89.69	90.24	70.22	110.49	109.09	106.27
1877.....	143.95	101.98	99.52	64.97	88.64	108.35	62.67	106.79	107.79	98.87
1878.....	147.04	91.34	88.17	53.83	92.08	116.16	56.00	110.49	102.16	94.14
1879.....	110.17	91.70	79.00	48.57	70.40	110.38	50.22	104.94	102.60	84.28
1880.....	128.22	111.37	76.66	51.91	88.42	118.97	50.44	87.04	96.75	88.33
1881.....	116.86	117.25	78.59	49.44	93.05	112.02	46.67	82.72	95.89	84.87
1882.....	117.05	124.76	83.29	48.27	99.78	101.76	50.44	96.30	91.99	86.99
1883.....	117.21	123.70	79.16	42.41	87.97	87.31	46.44	93.21	96.97	82.93
1884.....	110.20	112.20	72.60	44.78	84.01	75.14	43.78	93.83	93.72	78.69
1885.....	80.89	105.20	64.50	44.86	102.39	79.93	38.67	77.78	90.69	74.23
1886.....	87.77	105.92	60.08	44.10	79.90	76.03	36.00	71.30	88.10	70.52
1887.....	90.28	115.66	56.01	54.83	70.70	75.33	43.56	75.31	86.15	72.50
1888.....	96.04	130.98	78.23	55.44	73.92	74.24	44.89	70.99	78.79	75.57
1889.....	104.15	112.55	64.07	62.57	75.34	71.70	39.11	63.58	88.10	78.55
1890.....	130.57	110.71	64.05	71.31	80.49	62.53	26.22	63.58	86.80	83.54
1891.....	146.11	109.32	67.23	57.79	89.01	65.03	34.89	69.75	87.66	84.72

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—*
Continued.

[1847 to 1850 = 100.]

Year.	83. Cotton.	84. Wool.	85. Flax.	86. Hemp.	87. Silk.	88. Cord- age.	89. Rags.	83-89. Total.	90. Guano.	91 India rubber.
1851.....	95.53	106.48	124.68	105.26	98.71	104.59	95.49	104.39	107.03	146.67
1852.....	90.14	101.77	122.59	105.85	95.20	114.23	105.29	105.01	96.94	106.62
1853.....	98.92	99.10	84.05	101.67	101.72	104.78	119.80	101.43	108.26	147.59
1854.....	81.36	104.83	78.73	140.94	84.68	159.18	131.76	111.64	121.71	148.00
1855.....	81.57	95.40	77.97	109.11	81.17	169.48	110.39	103.58	119.27	102.51
1856.....	97.74	109.48	90.44	95.49	74.66	120.79	111.57	100.02	118.96	86.06
1857.....	113.47	120.95	111.84	97.99	98.74	123.03	119.22	112.18	135.17	85.88
1858.....	104.42	113.06	118.35	84.63	88.21	110.21	106.27	103.59	125.08	83.74
1859.....	98.49	115.59	116.52	84.13	97.27	111.05	109.80	104.69	110.70	153.35
1860.....	91.92	120.00	142.03	90.39	97.62	110.77	108.43	108.74	123.85	170.43
1861.....	115.30	107.61	147.47	89.22	91.17	110.11	115.10	110.85	116.51	111.16
1862.....	212.50	115.76	150.06	92.15	75.40	124.72	99.61	124.31	131.19	126.88
1863.....	335.99	110.83	166.46	108.52	93.03	133.52	114.51	151.84	122.94	118.57
1864.....	391.54	92.77	142.72	105.01	94.89	121.54	131.37	154.26	119.57	101.02
1865.....	210.24	99.07	111.39	78.86	102.42	113.01	109.61	117.80	124.16	103.21
1866.....	235.40	91.92	178.61	95.66	107.10	115.92	120.00	134.94	119.57	147.87
1867.....	181.47	82.41	177.53	93.23	127.91	124.53	125.10	130.31	103.36	124.96
1868.....	139.66	86.83	177.03	105.68	133.26	132.30	115.49	127.18	105.50	131.90
1869.....	172.84	79.76	171.46	109.19	128.60	128.65	123.14	130.52	122.94	100.84
1870.....	154.47	84.51	159.87	97.58	117.51	123.97	122.16	122.87	109.79	131.04
1871.....	132.51	91.06	138.84	112.36	117.45	128.87	113.53	119.23	119.47	145.18
1872.....	150.16	107.53	135.49	107.60	129.67	131.65	97.45	122.79	125.38	165.10
1873.....	137.97	94.57	120.59	101.20	129.74	145.38	107.58	119.58	73.50	153.04
1874.....	132.99	83.62	121.62	110.55	97.94	139.54	103.33	112.80	72.68	125.04
1875.....	117.98	87.14	132.78	100.95	86.32	140.67	114.44	111.47	65.95	119.77
1876.....	99.75	75.07	125.55	95.27	102.08	132.87	108.17	105.54	78.08	122.16
1877.....	100.13	75.99	150.49	102.48	109.09	124.78	95.36	108.33	64.93	111.60
1878.....	99.89	83.91	129.24	87.25	88.40	127.12	100.52	102.33	74.31	116.60
1879.....	101.78	79.69	153.50	78.89	74.82	108.40	94.25	98.76	57.80	136.10
1880.....	109.91	79.04	95.33	79.49	86.97	120.46	105.85	96.72	61.31	188.43
1881.....	98.98	80.08	127.08	83.76	82.54	115.98	106.60	99.29	60.55	160.29
1882.....	100.38	72.34	118.04	83.15	78.33	115.98	97.45	95.10	81.24	171.43
1883.....	90.10	68.14	128.18	84.73	86.09	118.18	95.52	95.93	71.56	182.63
1884.....	92.41	55.72	146.48	90.49	80.04	121.77	92.25	97.02	61.11	136.77
1885.....	91.97	56.21	156.33	87.05	75.13	121.18	83.37	95.89	56.42	138.62
1886.....	86.62	52.01	139.60	87.25	69.52	116.39	76.96	89.76	50.41	166.00
1887.....	82.88	51.26	102.24	79.92	67.73	116.50	69.38	81.42	47.91	170.40
1888.....	91.75	42.44	94.93	77.15	74.44	124.19	70.26	82.17	40.57	143.78
1889.....	92.12	46.05	94.94	86.87	94.15	128.32	80.88	89.05	51.63	139.91
1890.....	89.56	48.50	93.41	79.50	59.11	123.64	79.74	81.92	53.11	167.20
1891.....	87.32	47.38	78.65	79.52	59.28	122.80	87.88	80.40	46.89	141.67

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—*
Concluded.

[1847 to 1850=100.]

Years.	92. Gutta- percha.	93. Rosin.	94. Potash, prussi- ate and chrom- ate of.	95. Pitch.	96. Potash, carbon- ate of.	97. Soda.	98. Tallow candles	99. Tar.	100. Wax.	90-100. Total.
1851.....	89.42	101.38	79.41	139.71	87.35	91.46	88.84	98.27	114.21	103.98
1852.....	91.28	89.66	78.53	132.35	76.62	87.49	84.96	89.61	111.91	95.09
1853.....	111.32	117.24	85.65	114.71	82.69	89.77	96.12	86.58	116.92	105.17
1854.....	126.33	124.83	82.98	144.85	107.09	85.90	109.50	148.92	113.76	119.44
1855.....	88.21	108.97	84.86	137.87	112.96	82.77	111.16	145.89	111.46	109.63
1856.....	89.45	104.14	95.71	105.51	114.17	90.12	98.34	88.31	114.68	100.50
1857.....	104.44	121.38	98.61	100.00	128.14	110.72	100.58	87.88	115.26	108.01
1858.....	87.38	111.03	94.52	99.63	88.97	106.70	94.71	84.85	120.10	99.70
1859.....	158.03	115.17	116.51	116.18	93.22	104.87	97.92	97.40	107.92	115.57
1860.....	157.32	109.66	108.53	101.84	81.78	92.25	97.45	119.91	122.16	116.83
1861.....	141.44	174.48	94.45	140.81	91.80	83.17	93.77	159.31	109.27	119.65
1862.....	147.08	480.00	81.41	229.78	94.13	75.57	87.98	173.59	99.31	156.99
1863.....	188.12	542.07	84.83	234.93	96.25	73.24	77.20	131.17	105.66	161.36
1864.....	226.92	604.83	77.27	195.22	89.07	73.34	67.12	106.06	127.91	162.58
1865.....	173.95	299.31	67.87	123.16	88.36	77.31	66.70	91.34	116.27	121.06
1866.....	129.37	204.14	68.75	119.49	76.11	96.62	71.19	80.95	110.27	111.30
1867.....	151.43	200.69	61.05	103.68	76.21	90.12	72.02	84.41	121.53	108.13
1868.....	141.87	147.59	63.18	95.59	76.92	73.49	72.77	90.91	114.01	101.25
1869.....	101.99	126.21	61.06	123.90	79.05	70.01	71.19	101.75	120.97	98.17
1870.....	189.30	130.34	60.33	149.26	88.66	66.14	68.75	114.72	114.97	111.21
1871.....	160.47	198.39	80.31	107.48	94.50	81.03	68.85	118.47	118.12	117.48
1872.....	155.67	220.69	110.47	128.31	104.35	124.53	66.95	136.36	76.15	128.54
1873.....	160.73	189.89	103.28	134.56	111.71	97.17	68.78	146.75	71.17	119.14
1874.....	153.49	155.63	77.58	151.35	94.09	84.81	68.76	146.61	104.25	112.21
1875.....	116.57	130.57	67.54	134.56	87.89	75.27	64.03	130.16	93.85	98.74
1876.....	178.46	131.72	56.40	110.66	85.22	79.25	63.82	123.67	90.16	101.78
1877.....	208.98	133.56	54.03	110.66	80.06	72.10	64.16	120.20	77.49	99.80
1878.....	213.25	118.16	50.48	107.97	73.62	62.81	61.02	104.33	87.05	97.24
1879.....	173.45	108.74	66.14	91.18	61.00	60.03	58.24	105.48	74.13	90.21
1880.....	149.74	124.14	67.26	101.84	61.39	65.04	52.69	105.56	70.08	95.23
1881.....	162.50	140.92	68.24	96.69	65.96	59.83	50.77	105.34	72.69	94.89
1882.....	150.36	139.08	73.72	119.67	72.23	59.04	50.98	109.52	62.84	99.10
1883.....	142.11	120.80	63.29	109.56	68.67	54.92	54.76	109.38	71.49	95.38
1884.....	149.06	99.54	42.30	109.13	64.93	51.74	55.33	91.85	71.22	84.82
1885.....	135.24	92.64	56.82	69.73	58.35	43.94	53.66	127.92	61.52	81.35
1886.....	127.77	91.95	52.60	74.33	61.10	38.58	46.42	103.75	53.38	78.75
1887.....	123.76	87.24	55.85	69.73	60.43	38.93	41.50	97.47	57.01	77.30
1888.....	121.16	85.63	52.09	68.50	57.69	45.13	39.20	105.34	58.34	74.31
1889.....	181.24	103.79	53.40	108.39	45.97	44.98	40.64	130.09	50.43	86.41
1890.....	188.50	110.57	57.83	109.13	51.18	49.45	42.67	128.28	50.83	91.70
1891.....	161.71	115.98	56.36	98.53	59.31	51.99	41.63	111.18	50.26	85.06

TABLE 69.—*Relative prices of commodities in England—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	1. Cotton yarn.	2. Piece goods, plain.	3. Piece goods, printed.	4. Stockings and socks.	5. Thread for sew- ing.	6. Glass, common bottles.	7. Linen yarn.	8. Linen, plain.
1851.....	98.75	94.19	97.48	99.36	109.52	91.38	109.68	100.29
1852.....	98.04	93.87	96.57	90.96	116.40	90.17	103.53	98.86
1853.....	100.18	99.35	98.63	86.88	120.11	93.53	109.59	109.29
1854.....	97.50	91.94	96.11	80.89	120.11	98.45	115.93	113.00
1855.....	93.21	90.00	91.76	84.84	121.16	93.88	111.49	108.43
1856.....	94.82	92.90	92.91	77.83	114.81	95.43	118.10	102.43
1857.....	105.45	96.45	95.65	66.75	119.05	95.43	124.07	105.00
1858.....	102.59	93.55	93.14	81.91	123.28	95.78	118.37	104.86
1859.....	105.45	99.03	96.80	73.25	129.63	90.86	133.30	103.86
1860.....	107.14	99.68	96.34	75.54	124.34	88.79	125.34	103.14
1861.....	111.96	97.42	94.05	71.97	119.05	87.59	125.88	102.29
1862.....	142.59	118.06	104.58	81.02	143.39	86.90	123.53	97.71
1863.....	232.23	160.32	130.66	88.92	178.81	87.76	142.99	107.86
1864.....	257.14	186.77	144.62	103.82	189.42	86.29	161.99	119.86
1865.....	214.11	162.90	132.95	99.87	172.49	85.95	149.68	115.14
1866.....	211.25	164.19	135.24	105.99	177.78	87.33	153.39	117.57
1867.....	188.48	133.23	120.82	89.94	181.48	86.03	156.47	111.29
1868.....	180.98	118.39	110.53	84.46	178.31	85.60	153.03	107.14
1869.....	178.93	122.26	112.36	86.88	177.78	85.43	146.52	100.86
1870.....	168.93	114.52	108.70	86.50	175.66	86.12	130.50	102.14
1871.....	166.61	107.42	107.78	82.80	172.49	83.71	132.94	105.57
1872.....	168.48	113.23	112.59	90.19	184.13	84.57	148.42	106.14
1873.....	158.57	111.29	109.38	94.27	187.30	87.76	149.41	108.86
1874.....	140.98	103.87	107.32	90.32	186.77	89.74	137.29	111.43
1875.....	130.89	100.97	109.15	85.61	193.65	95.52	144.34	108.43
1876.....	117.77	91.29	102.62	83.95	193.65	96.12	141.36	102.00
1877.....	114.73	91.29	98.63	79.36	170.37	94.74	145.97	99.00
1878.....	111.34	89.03	95.65	82.55	166.67	92.33	142.62	102.86
1879.....	110.09	85.48	89.47	84.84	165.01	87.93	134.12	101.14
1880.....	118.30	88.06	86.73	83.44	167.72	87.07	128.96	105.43
1881.....	110.62	85.48	84.21	74.14	158.20	85.52	125.88	100.43
1882.....	115.71	87.42	85.35	79.11	164.02	82.33	124.07	98.43
1883.....	109.37	84.19	82.84	80.00	173.02	79.91	129.95	99.29
1884.....	109.29	79.68	82.38	79.62	178.31	80.17	126.24	94.57
1885.....	103.39	75.16	79.41	76.43	166.67	82.50	129.05	90.71
1886.....	96.79	71.29	72.77	70.45	158.20	81.81	127.78	85.43
1887.....	96.52	73.23	72.54	65.35	154.50	81.47	124.62	86.71
1888.....	97.68	73.23	70.48	66.50	155.03	80.86	131.04	79.57
1889.....	99.38	72.26	67.96	69.68	164.55	81.55	131.58	79.57
1890.....	102.41	74.19	70.48	69.55	175.13	79.91	122.90	77.43
1891.....	93.48	74.52	65.90	66.50	190.48	80.95	131.40	77.43

TABLE 69.—*Relative prices of commodities in England—Calculations of Dr. Soetbeer—*
Concluded.

[1847 to 1850 = 100.]

Year.	9. Linen sail cloth and sails.	10. Woollen and worsted yarns.	11. Cloths, etc.	12. Flannels, etc.	13. Worsted stuffs.	14. Carpets, etc.	1-14. Total.
1851	96.75	103.94	84.88	94.84	82.05	108.82	97.98
1852	97.08	103.29	83.99	93.23	77.30	100.43	95.98
1853	117.42	107.15	89.26	97.99	87.81	91.30	100.61
1854	132.47	101.67	83.55	88.34	83.97	89.54	99.53
1855	117.42	97.99	89.95	102.21	79.30	94.14	98.27
1856	118.51	105.65	83.24	98.93	84.06	99.38	98.50
1857	113.20	118.10	83.24	107.31	85.81	101.97	101.25
1858	113.10	122.29	88.54	101.94	86.98	86.37	100.91
1859	125.11	133.93	99.49	102.88	91.99	95.25	105.77
1860	118.83	138.90	103.01	105.50	94.49	97.32	105.60
1861	128.68	128.93	101.95	119.30	100.08	92.57	105.84
1862	132.90	138.94	103.83	124.93	108.35	92.38	114.22
1863	136.15	157.98	117.24	131.30	100.75	95.90	133.45
1864	147.94	172.44	125.65	133.51	115.53	106.42	146.53
1865	137.77	172.49	128.93	131.03	114.86	111.04	137.80
1866	137.99	175.70	133.89	128.95	117.20	118.60	140.36
1867	139.39	159.52	140.18	124.26	121.37	122.21	133.91
1868	144.91	148.82	125.38	121.78	116.78	109.78	127.56
1869	153.68	152.93	124.38	118.50	121.20	112.43	128.15
1870	136.90	144.33	120.28	115.82	117.11	110.02	122.68
1871	140.04	143.30	128.32	117.63	117.03	111.35	122.64
1872	154.65	157.94	140.87	118.30	121.37	120.08	130.07
1873	151.19	159.44	140.22	121.31	101.09	119.19	128.52
1874	155.95	163.20	135.19	132.44	91.24	119.06	126.06
1875	155.41	165.08	133.69	123.79	88.81	114.13	124.96
1876	155.52	147.03	130.81	117.43	82.64	107.19	119.23
1877	148.38	137.44	122.16	117.83	79.47	97.22	114.04
1878	140.26	128.67	118.09	113.00	77.46	93.89	111.03
1879	126.52	114.29	109.06	111.19	74.29	88.93	105.93
1880	131.49	129.78	110.60	110.25	76.38	89.94	108.15
1881	129.98	111.42	111.32	101.74	75.46	88.77	103.08
1882	134.63	109.63	116.89	101.41	80.55	86.80	104.72
1883	126.95	100.17	130.98	99.33	82.97	87.11	104.72
1884	118.51	101.75	141.66	93.70	80.47	80.69	103.36
1885	117.21	103.51	137.59	87.67	78.05	79.40	100.48
1886	120.02	99.23	135.29	83.71	77.21	78.38	97.03
1887	119.16	101.54	136.94	82.24	74.04	74.86	95.98
1888	113.74	97.60	135.29	79.29	72.04	76.37	94.91
1889	119.59	98.29	138.61	78.08	73.46	77.85	96.60
1890	114.50	102.14	108.62	82.71	72.54	76.87	94.90
1891	115.91	96.88	105.92	83.24	72.37	76.62	95.11

TABLE 70.—*Summary of relative prices of commodities in Hamburg and England—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	Products of agriculture, etc.	Animal and fish products.	Southern products.	Tropical products (exclusive of cotton).	Minerals and metals.	Textile materials.	Miscellaneous articles.	British articles of export.	Total.
1851	99.00	110.38	90.00	99.94	95.70	104.39	103.98	97.98	100.21
1852	110.71	106.68	95.33	99.95	95.76	105.01	95.09	95.98	101.69
1853	128.18	114.94	124.78	115.28	109.24	101.43	105.17	100.61	113.69
1854	150.49	121.12	112.91	118.17	115.95	111.64	119.44	99.53	121.25
1855	158.82	123.54	142.03	121.02	119.10	103.58	109.63	98.27	124.23
1856	149.03	127.61	155.95	123.95	116.65	100.02	100.50	98.50	123.27
1857	138.11	140.18	169.32	140.32	124.58	112.18	108.01	101.25	130.11
1858	119.92	127.02	120.69	112.76	109.04	103.59	99.70	100.91	113.52
1859	119.48	130.69	113.40	115.74	108.57	104.69	115.57	105.77	116.34
1860	133.75	133.75	120.36	120.28	108.66	108.74	116.83	105.60	120.98
1861	131.46	124.79	122.08	117.19	102.40	110.85	119.65	105.84	118.10
1862	126.80	127.19	113.93	117.28	101.88	124.31	156.99	114.22	122.65
1863	120.12	124.12	114.97	116.87	102.92	151.84	161.36	133.45	125.49
1864	117.89	129.21	109.41	125.74	104.53	154.26	162.58	146.53	129.28
1865	126.48	135.23	114.01	146.11	98.93	117.80	121.06	137.80	122.63
1866	137.64	135.64	126.30	117.90	96.54	134.94	111.30	140.36	125.85
1867	146.38	132.68	126.44	114.35	93.28	130.31	108.13	133.91	124.44
1868	141.59	133.48	120.75	116.75	91.76	127.18	101.25	127.56	121.99
1869	132.40	143.25	115.58	122.10	96.33	130.52	98.17	128.15	123.38
1870	131.23	139.32	118.57	120.56	99.68	122.87	111.21	122.68	122.87
1871	144.76	144.14	122.99	120.22	101.85	119.23	117.48	122.64	127.03
1872	144.17	155.82	125.36	130.25	121.63	122.79	128.54	130.07	135.62
1873	146.21	156.72	132.15	134.32	140.60	119.58	119.14	128.52	138.28
1874	150.99	157.76	145.02	136.74	116.70	112.80	112.21	126.06	136.20
1875	138.16	158.59	131.35	132.11	107.49	111.47	98.74	124.96	129.85
1876	141.06	155.79	128.69	129.74	106.27	105.54	101.78	119.23	128.33
1877	145.34	152.51	140.55	130.29	98.87	108.33	99.80	114.04	127.70
1878	132.50	141.53	134.34	125.61	94.14	102.33	97.24	111.03	120.60
1879	132.92	137.60	139.10	123.34	84.28	98.76	90.21	105.93	117.10
1880	138.11	147.30	154.65	122.92	88.33	96.72	95.23	108.15	121.89
1881	137.50	151.21	146.57	122.60	84.87	99.29	94.89	103.08	121.07
1882	138.45	155.17	139.23	122.47	86.99	95.10	99.10	104.72	122.14
1883	143.33	156.40	142.38	120.17	82.93	95.93	95.38	104.72	122.24
1884	123.85	150.26	120.16	117.90	78.69	97.02	84.82	103.36	114.25
1885	110.75	140.45	123.78	116.39	74.23	95.89	81.35	100.48	108.72
1886	101.31	133.53	122.44	115.45	70.52	89.76	78.75	97.03	103.99
1887	96.28	129.93	121.81	116.59	72.50	81.42	77.30	95.98	102.02
1888	98.18	128.97	120.09	116.41	75.57	82.17	74.31	94.91	102.04
1889	102.06	130.95	127.57	118.82	78.55	89.05	86.41	96.60	106.13
1890	107.53	129.85	138.61	119.35	83.54	81.92	91.70	94.90	108.13
1891	119.88	131.66	139.99	113.56	84.72	80.40	85.06	95.11	109.19

Comparison between the foregoing table and results for the United States is rendered difficult in the base line. A reduction to the basis of 1860 would, however, involve a large expenditure of labor. But the purpose of such a reduction can be sufficiently met by transposing Dr. Soetbeer's summary to the basis of 1860, by dividing each relative price by the price of that year. The results of such a calculation are shown in the following table, 71:

TABLE 71.—*Relative prices in Hamburg, by groups of articles.*

[1860=100.]

Year.	Products of agri- culture. (20)	Animal and fish products. (22)	Southern products. (7)	Tropical products. (19)	Minerals and metals. (14)	Textile materials. (7)	Miscella- neous. (10)	British articles of export. (14)	Total. (114)
1851	74.0	82.5	74.8	83.1	88.1	96.0	89.0	92.8	82.8
1852	82.8	79.8	79.2	83.1	88.1	96.6	81.4	90.9	84.1
1853	95.8	85.9	103.7	95.8	100.5	93.3	90.0	95.3	94.0
1854	112.5	90.6	93.8	98.2	106.7	102.7	102.2	94.3	100.2
1855	118.7	92.4	118.0	100.6	109.6	95.3	93.8	93.1	102.7
1856	111.4	95.4	129.6	103.1	107.4	92.0	86.0	93.3	101.9
1857	103.3	104.8	140.7	116.7	114.7	103.2	92.5	95.9	107.5
1858	89.7	95.0	100.3	93.7	100.3	95.3	85.3	95.6	93.8
1859	89.3	97.7	94.2	96.2	99.9	96.3	98.9	100.2	96.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	98.3	93.3	101.4	97.4	94.2	101.9	102.4	100.2	97.6
1862	94.8	95.1	94.7	97.5	93.8	114.3	134.4	108.2	101.4
1863	89.8	92.8	95.5	97.2	94.7	139.6	138.1	126.4	103.7
1864	88.1	96.6	90.9	104.5	96.2	141.9	139.2	138.8	106.9
1865	94.6	101.1	94.7	96.5	91.0	108.3	103.6	130.5	101.4
1866	102.9	101.4	104.9	98.0	88.8	124.1	95.3	132.9	104.0
1867	109.4	99.2	105.1	95.1	85.8	119.8	92.6	126.8	102.9
1868	105.9	99.8	100.3	97.1	84.4	117.0	86.7	120.8	100.8
1869	99.0	107.1	96.0	101.5	88.7	120.0	84.0	121.4	102.0
1870	98.1	104.2	98.5	100.2	91.7	113.0	95.2	116.2	101.6
1871	108.2	107.8	102.2	100.0	93.7	109.6	100.6	116.1	105.0
1872	107.8	116.5	104.2	108.3	111.9	112.9	110.0	123.2	112.1
1873	109.3	117.2	109.8	111.7	129.4	110.0	102.0	121.7	114.3
1874	112.9	118.0	120.5	113.7	107.4	103.7	96.0	119.4	112.6
1875	103.3	118.6	109.1	109.8	98.9	102.5	84.5	118.3	107.3
1876	105.5	116.5	106.9	107.9	97.8	97.1	87.1	112.9	106.1
1877	108.7	114.0	116.8	108.3	91.0	99.6	85.4	108.0	105.6
1878	99.1	105.8	111.6	104.4	86.6	94.1	83.2	105.1	99.7
1879	99.4	102.9	115.6	102.5	77.6	90.8	77.2	100.3	96.8
1880	103.3	110.1	128.5	102.2	81.3	88.9	81.5	102.4	100.8
1881	102.8	113.1	121.8	101.9	78.1	91.3	81.2	97.6	100.1
1882	103.5	116.0	115.7	101.8	80.1	87.5	84.8	99.2	101.0
1883	107.2	116.9	118.3	99.9	76.3	88.2	81.6	99.2	101.0
1884	92.6	112.3	99.8	98.0	72.4	89.2	72.6	97.9	94.4
1885	82.8	105.0	102.8	96.8	68.3	88.2	69.6	95.2	89.9
1886	75.7	99.8	101.7	96.0	64.9	82.5	67.4	91.9	86.0
1887	72.0	97.1	101.2	96.9	66.7	74.9	66.2	90.9	84.3
1888	73.4	96.4	99.8	96.8	69.5	75.6	63.6	89.9	84.3
1889	76.3	97.9	106.0	98.8	72.3	81.9	74.0	91.5	87.7
1890	80.4	97.1	115.2	99.2	76.9	75.3	78.5	89.9	89.4
1891	89.6	98.4	116.3	94.4	78.0	73.9	72.8	90.1	90.3

The final column gives the division of the total sum by 114. It is therefore directly comparable with the simple average of the 223 articles in our list for the United States. That in 1891 was 92.2, while in Hamburg it was 90.3.

It will not be forgotten that the foregoing table consists very largely of food and raw products, manufactures coming in for a much smaller share than in the United States list.

The grouping adopted by Soetbeer is quite distinct from that of our tables and renders a comparison of the groups out of the question. In view of the large range of Soetbeer's table a comparison on the basis of the prices of the same articles in the United States can not be made. There are too many articles in the Soetbeer list not included in the prices for the United States.

The Hamburg price figures have been subjected to several analyses along the line of Dr. Soetbeer's celebrated investigations. The purpose of other writers has been to discover, if possible, the results of such an analysis by the use of another base line, or by a grouping more in harmony with their own notions.

HAMBURG PRICES—CALCULATIONS OF DR. KRAL.

One of the most noticeable of such efforts is that of Dr. Franz Kral. (*a*) In his investigations of the value of money and the movement of prices he has taken as his starting point the year 1871, as he had in view especially the monetary condition of the German Empire. His calculations are somewhat more comprehensive than those of Dr. Soetbeer, and embrace as many as 265 articles. While we can not reproduce here the detailed results article by article, the summary of his work will prove of interest. Following the method of the Economist, Dr. Kral has not reduced his groups to averages, but leaves as his basis of comparison, in the aggregate, 26,500. We feel sure that the value of his table is much increased by reducing it to the basis of 100 throughout. The following table gives the substance of Dr. Kral's results:

TABLE 72.—*Relative prices in Hamburg, by groups of articles—Calculations of Dr. Kral.*

[1871=100.]

Year.	Vegetable food. (21)	Animal food. (8)	Total food. (29)	Table luxuries. (59)	Drugs and medicines. (5)	Raw materials. (132)	Half products of manufactures. (7)	Manufactures. (14)	Average of all relative prices. (265)
1845-1850.....	81.22	82.85	81.67	80.84	89.58	94.24	92.75	122.90	91.38
1851-1855.....	97.24	82.72	93.23	96.92	99.00	100.08	97.40	128.99	99.95
1856-1860.....	96.58	93.17	95.64	107.42	96.13	104.07	107.33	120.69	104.39
1861-1865.....	89.89	87.13	89.13	99.76	112.06	88.74	108.99	112.12	95.42
1866-1870.....	101.39	98.97	100.73	95.90	106.44	100.48	99.42	105.20	100.47
1871.....	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1872.....	100.27	98.78	99.86	110.70	99.39	110.30	119.69	107.66	108.82
1873.....	101.51	107.21	103.10	117.35	98.72	113.23	125.85	116.66	112.85
1874.....	107.10	116.61	109.73	122.96	108.05	108.92	109.07	110.04	112.14
1875.....	100.96	116.36	105.21	114.91	104.67	107.13	103.03	112.02	108.54
1876.....	100.09	116.36	104.58	111.03	95.86	102.94	94.42	108.68	104.33
1877.....	101.85	108.16	103.59	113.34	97.06	97.97	88.00	100.66	101.60
1878.....	96.92	96.25	96.73	111.07	89.02	95.14	86.12	96.87	98.09
1879.....	97.28	98.57	97.63	109.57	91.45	91.04	77.98	94.03	95.43
1880.....	101.24	115.39	105.14	112.53	89.56	94.73	78.23	99.26	98.91
1881.....	103.03	138.00	112.68	110.36	94.49	92.77	78.88	96.12	98.48
1882.....	100.01	122.77	106.29	103.50	91.46	94.50	77.62	98.19	96.95
1883.....	93.93	123.13	101.99	101.53	87.14	92.65	77.79	101.75	95.00
1884.....	86.83	112.09	93.80	94.34	91.61	88.56	78.61	96.99	90.57

a Geldwert und Preisbewegung im deutschen Reiche, 1871-1884, Jena, Fischer, 1887, 112 pp.

The foregoing table extends simply to 1884. It has not been deemed necessary to extend it, inasmuch as it embodies rather a rearrangement of matters already considered than a new principle.

A glance at the foregoing table reveals the fact that in 1884 there was a decrease in price in all groups as compared with 1871. An interesting comparison may be made of the maximum and minimum prices since 1871.

They occurred as follows:

Group.	Maximum.	Minimum.
I.—Food, vegetable.....	1874	1884
animal.....	1881	1878
II.—Luxuries (for the table).....	1874	1884
III.—Drugs.....	1874	1883
IV.—All other raw materials.....	1873	1884
V.—Half products.....	1873	1882
VI.—Manufactures.....	1873	1879
Total.....	1873	1884

If we consider the final year 1884, we observe an increase as against 1871 only in the sub-group, animal food. In the main group, food, this is eliminated. While the average is 90.57, the range of variation is all the way from 96.99 in the group, manufactures, to 78.61 in the group, half products of manufactures. The important group, raw materials, is slightly below the average.

The grouping adopted by Dr. Kral differs from that of Soetbeer, and we can not make a comparison of the groups. Soetbeer's tables, including 114 articles, had as the aggregate relative price in 1871, 127.03, and in 1884, 114.25. If we make the former 100, then the relative price of 1884 becomes 89.9, which is quite close to the figures 90.6 given in the preceding table for the year 1884. It would appear that no material change in the result has been obtained by broadening the basis of the calculations.

HAMBURG PRICES—CALCULATIONS OF PROF. CONRAD.

An important analysis of the Hamburg figures has been made by Prof. Johannes Conrad, of Halle. In his periodical, *Jahrbücher für Nationalökonomie und Statistik*, he has published from time to time articles upon the movements of prices based upon the reports of prices by the Hamburg and other offices. From the last article (a) we extract what follows, adding, however, that we are indebted to the courtesy of Prof. Conrad for the figures for 1890 and 1891, which have not as yet been published.

The marked feature of this work is the number and variety of combinations which have been produced. Prof. Conrad has selected 47 leading articles from the Hamburg list and calculated the relative

a Vol. 1 of 1891, p. 913.

prices on the basis of 1847 to 1870 as 100. His results are given in the following table:

TABLE 73.—*Relative prices in Hamburg of certain articles at certain periods—Calculations of Prof. Conrad.*

[1847 to 1870=100.]

Num-ber.	Article.	1847 to 1870.	1871 to 1880.	1881 to 1885.	1886.	1887.	1888.	1889.
1	Coffee (Brazil)	100.00	155.13	96.11	97.16	156.81	134.77	161.54
2	Cocoa	100.00	116.53	137.35	126.82	131.52	125.85	117.30
3	Tea	100.00	86.57	69.51	66.66	58.56	67.30	66.94
4	Sugar, raw	100.00	109.16	85.38	48.94	51.30	60.83	84.12
5	Currants	100.00	89.50	83.29	87.19	89.62	70.07	65.20
6	Raisins	100.00	99.51	97.76	88.17	71.86	69.73	71.74
7	Almonds	100.00	110.91	111.77	101.77	104.92	101.43	114.63
8	Pepper	100.00	140.35	175.24	213.26	189.58	207.84	184.76
9	Cocoanut oil	100.00	89.13	74.83	66.32	64.11	58.51	59.42
10	Palm oil	100.00	100.45	83.90	60.19	56.74	52.94	59.07
11	Indigo	100.00	111.41	101.26	88.53	85.60	84.10	95.23
12	Mahogany	100.00	92.56	82.16	71.26	73.80	80.05	92.14
13	Cotton	100.00	81.06	65.01	59.35	56.79	62.65	60.14
14	Silk	100.00	102.71	80.79	69.83	68.03	61.63	79.69
15	Flax	100.00	102.57	106.41	109.86	80.46	61.30	61.46
16	Hemp	100.00	98.01	86.19	87.61	80.26	83.17	95.05
17	Rice	100.00	81.43	71.07	62.78	64.93	63.78	67.00
18	Wheat	100.00	104.38	85.30	68.77	68.58	65.85	65.21
19	Rye	100.00	106.26	95.74	69.09	62.95	67.09	67.71
20	Barley	100.00	127.79	107.52	94.42	79.00	57.52	62.01
21	Oats	100.00	109.97	99.04	89.21	75.14	66.53	80.46
22	Hops	100.00	150.51	176.20	105.77	98.31	34.33	95.28
23	Clover seed	100.00	115.02	107.38	93.16	87.72	93.09	91.77
24	Rape-seed	100.00	97.88	90.46	80.72	74.02	76.48	82.31
25	Rape-seed oil	100.00	85.84	77.57	61.00	64.19	69.30	75.87
26	Linseed oil	100.00	90.54	74.93	65.10	62.87	57.56	63.82
27	Calfskins	100.00	103.00	86.70	80.96	72.99	56.44	52.71
28	Bristles	100.00	155.22	172.66	154.17	165.86	88.18	99.15
29	Horsehair	100.00	103.15	97.19	85.09	88.95	80.01	83.10
30	Wax	100.00	76.98	60.66	60.96	50.89	50.35	44.14
31	Tallow	100.00	89.74	86.30	61.96	60.95	57.40	67.79
32	Fish oil	100.00	82.17	80.24	57.36	54.86	52.58	54.13
33	Butter	100.00	134.16	129.75	113.09	112.62	72.56	78.59
34	Lard	100.00	86.92	87.79	59.37	64.22	78.70	78.77
35	Herrings	100.00	121.94	125.30	99.25	86.83	94.40	91.78
36	Iron, pig	100.00	117.71	79.02	64.85	68.66	66.21	84.20
37	Zinc, pig	100.00	112.76	84.97	68.78	70.75	59.81	58.90
38	Tin	100.00	96.32	85.04	77.23	84.33	95.90	83.87
39	Copper	100.00	88.02	68.54	54.46	50.76	75.26	57.62
40	Lead	100.00	112.19	69.11	64.02	77.58	89.53	116.20
41	Quicksilver	100.00	129.54	73.28	70.33	87.45	94.19	102.33
42	Coal and coke	100.00	109.88	77.78	74.07	67.90	69.14	80.25
43	Saltpeter	100.00	96.71	82.84	68.21	67.58	66.53	64.29
44	Bar iron (English)	100.00	113.53	73.26	66.91	59.21	67.74	75.64
45	Cotton yarn	100.00	115.60	96.62	116.54	118.74	125.53	114.62
46	Woollen and half-woollen yarn	100.00	101.43	74.84	65.67	66.85	64.40	64.06
47	Linen yarn	100.00	80.55	95.28	72.65	79.66	120.62	115.60
	Average	100.00	106.01	93.82	82.32	81.18	77.85	82.72

This table brings out admirably the fact of the fall in prices in recent years. In the period 1871 to 1880, which immediately followed the period of comparison, there were twenty-eight articles, or more than half, whose relative prices exceeded 100. Since 1880 the number is much fewer, being from 1881 to 1885, eleven; in 1886, eight; in 1887, seven; in 1888, six; and in 1889, eight. A study of the individual quotations makes the fact all the more marked.

Prof. Conrad does not give the average of his relative prices. We have added it to the table.

But these comparisons are carried still further for twenty-two articles. They are presented in the following tables:

TABLE 74.—Average prices of certain articles in Hamburg for various periods—Calculations of Prof. Conrad.

[NOTE.—The prices in American money have been obtained from the American figures in Table 66, and are not reduced from the German figures here given.]

Year.	Coffee.		Cocoa.		Tea.		Pepper.		Rice.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1847-1880.....	54.74	\$0.128	53.16	\$0.115	146.54	\$0.317	41.26	\$0.088	12.32	\$0.027
1847-1867.....	46.82	.111	49.08	.106	152.43	.329	36.45	.079	13.35	.029
1868-1872.....	52.50	.120	49.74	.108	149.94	.323	47.31	.102	10.98	.024
1872-1874.....	80.92	.183	50.97	.110	142.08	.306	68.47	.148	11.17	.024
1875-1877.....	81.87	.187	67.66	.133	133.93	.289	46.95	.101	10.07	.022
1878-1880.....	64.65	.154	81.53	.176	118.60	.256	38.30	.083	10.54	.023
1871-1880.....	73.70	.170	63.30	.137	132.13	.285	51.58	.111	10.61	.023
1881-1885.....	45.66	.111	74.61	.156	106.08	.229	64.40	.139	9.26	.020
1886.....	46.16	.107	68.89	.149	101.73	.220	79.61	.172	8.18	.018
1887.....	74.45	.166	71.44	.154	89.37	.193	69.67	.150	8.46	.018
1888.....	64.03	.146	68.36	.148	102.72	.223	76.38	.173	8.31	.018
1889.....	76.75	.172	63.72	.138	102.17	.221	67.90	.147	8.73	.019
1890.....	81.80	.186	66.05	.143	99.23	.214	56.66	.122	8.81	.019
1891.....	76.53	.177	71.90	.155	107.37	.232	43.70	.094	9.08	.020

Year.	Sugar.		Cotton.		Silk.		Indigo.		Saltpetre.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1847-1880.....	26.98	\$0.054	76.67	\$0.166	1942.04	\$4.185	652.05	\$1.413	13.53	\$0.031
1847-1867.....	23.76	.053	80.49	.174	1848.93	3.992	599.10	1.307	13.28	.031
1868-1872.....	25.56	.060	83.13	.180	2480.52	5.226	829.44	1.791	14.67	.032
1872-1874.....	24.63	.055	78.16	.169	2301.16	4.968	752.00	1.624	13.77	.030
1875-1877.....	26.77	.054	58.99	.127	1915.65	4.136	678.28	1.464	12.34	.027
1878-1880.....	20.23	.057	57.83	.125	1611.09	3.479	635.12	1.371	14.75	.032
1871-1880.....	24.10	.058	65.87	.142	1975.25	4.263	701.13	1.514	13.81	.030
1881-1885.....	19.62	.045	52.83	.114	1553.69	3.355	637.26	1.376	11.83	.025
1886.....	12.02	.026	48.23	.104	1343.06	2.900	557.20	1.203	9.74	.021
1887.....	12.60	.027	46.15	.100	1308.39	2.825	539.93	1.166	9.65	.021
1888.....	14.94	.026	50.91	.110	1185.23	3.105	529.30	1.130	9.50	.021
1889.....	20.66	.036	48.87	.111	1530.89	3.927	599.32	1.294	9.18	.020
1890.....	13.24	.030	49.86	.108	1107.76	2.465	463.82	1.001	8.01	.017
1891.....	15.09	.031	47.19	.105	1005.93	2.473	534.59	1.154	8.33	.018

Year.	Fish oil.		Palm oil.		Pig iron.		Zinc.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1847-1880.....	33.72	\$0.055	37.71	\$0.082	3.88	\$0.008	20.63	\$0.045
1847-1867.....	15.79	.060	36.69	.081	3.72	.008	19.86	.043
1868-1872.....	34.20	.053	42.30	.092	4.02	.009	20.22	.044
1872-1874.....	32.09	.050	36.86	.080	6.19	.014	24.60	.053
1875-1877.....	29.99	.047	37.00	.080	3.91	.009	23.96	.052
1878-1880.....	24.59	.038	35.20	.076	3.11	.007	19.96	.043
1871-1880.....	29.27	.046	37.87	.082	4.32	.010	22.35	.048
1881-1885.....	28.58	.045	31.63	.068	2.90	.006	16.85	.036
1886.....	20.43	.032	22.69	.049	2.38	.005	13.64	.029
1887.....	19.54	.030	21.39	.046	2.52	.005	14.03	.030
1888.....	18.73	.029	19.96	.043	2.43	.005	11.86	.032
1889.....	19.28	.030	22.27	.048	3.09	.007	11.68	.035
1890.....	16.42	.026	23.32	.051	3.20	.007	18.15	.044
1891.....	19.65	.031	24.06	.052	2.78	.006	19.04	.049

TABLE 74.—Average prices of certain articles in Hamburg for various periods—Calculations of Prof. Conrad—Concluded.

[NOTE.—The prices in American money have been obtained from the American figures in Table 66, and are not reduced from the German figures here given.]

Year.	Tin.		Copper.		Lead.		Coal.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per 2,240 pounds.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1847-1880.....	108.79	\$0.235	87.92	\$0.198	21.19	\$0.046	.83	\$4.028
1847-1867.....	109.05	.236	91.74	.210	20.46	.044	.81	3.953
1868-1872.....	128.04	.276	80.58	.174	21.51	.046	.84	4.026
1872-1874.....	136.96	.296	93.21	.201	26.98	.058	1.20	5.752
1875-1877.....	91.09	.196	89.31	.193	23.71	.051	.83	4.033
1878-1880.....	78.61	.170	69.88	.151	19.20	.041	.68	3.241
1871-1880.....	105.81	.228	83.50	.180	22.92	.050	.89	4.284
1881-1885.....	93.42	.202	65.02	.141	14.12	.031	.63	3.038
1886.....	84.84	.183	51.66	.112	13.08	.028	.60	2.873
1887.....	92.64	.200	48.15	.104	15.85	.034	.55	2.817
1888.....	105.35	.227	71.39	.145	18.29	.035	.56	2.827
1889.....	92.13	.195	54.66	.119	23.72	.040	.65	3.192
1890.....	88.60	.191	55.24	.119	29.63	.053	.79	3.838
1891.....	87.10	.189	57.69	.125	23.23	.049	.81	3.947

Year.	Wheat.		Rye.		Barley.		Oats.	
	Per 100 German pounds.	Per bushel.	Per 100 German pounds.	Per bushel.	Per 100 German pounds.	Per bushel.	Per 100 German pounds.	Per bushel.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1847-1880.....	11.13	\$1.438	8.14	\$0.984	10.79	\$0.924	7.89	\$0.520
1847-1867.....	10.89	1.411	7.83	.948	11.07	.834	7.74	.495
1868-1872.....	11.70	1.218	8.88	1.073	9.87	1.017	8.07	.559
1872-1874.....	12.36	1.602	8.74	1.057	9.14	1.155	8.33	.576
1875-1877.....	11.01	1.426	8.59	1.039	10.38	1.076	8.67	.599
1878-1880.....	10.75	1.393	7.86	.951	10.54	1.093	7.22	.499
1871-1880.....	11.43	1.482	8.49	1.022	10.53	1.092	8.05	.556
1881-1885.....	9.34	1.210	7.65	.925	8.86	.918	7.25	.501
1886.....	7.53	.976	5.52	.668	7.78	.807	6.53	.451
1887.....	7.51	.974	5.53	.669	6.51	.675	5.50	.380
1888.....	7.21	1.010	5.36	.711	4.74	.762	4.87	.351
1889.....	7.14	.926	5.41	.655	5.11	.733	5.89	.412
1890.....	7.40	.963	6.36	.769	5.53	.717	6.35	.445
1891.....	9.23	1.221	8.65	1.046	6.40	.750	6.70	.477

TABLE 75.—Relative prices in Hamburg of certain groups—Calculations of Prof. Conrad.

[In this table each group has been given its appropriate proportion in national consumption. 1847 to 1867=100.]

Year.	Group I. —Coffee, cocoa, tea, pepper, rice, sugar.	Group II. —Cotton, silk.	Group III.—In- digo, salt- petre, fish oil, palm oil.	Group IV.—Pig iron, zinc, tin, copper, lead.	Group V. —Coal.	Group VI.— Wheat, rye, bar- ley, oats.	Groups I to VI.— Average of 22 articles.	Simple average of 318 ar- ticles in- cluded in Hamburg quota- tions.
1871-1880.....	122.73	87.83	101.65	111.88	109.88	112.51	110.63	104.00

[1847 to 1880=100.]

1881-1885.....	78.64	71.77	89.30	75.05	75.90	89.21	84.18	83.88
1886.....	65.12	64.52	72.08	65.29	72.29	72.49	70.73	75.43
1887.....	88.10	62.05	70.22	65.23	66.27	64.76	66.27	75.57
1888.....	84.15	65.01	68.48	68.84	67.48	60.54	64.05	70.48
1889.....	104.08	67.64	71.17	77.91	78.31	64.65	70.43	74.79
1890.....	94.53	62.97	60.16	84.11	95.18	71.46	77.01	74.83
1891.....	94.19	59.03	66.43	75.17	97.59	87.31	86.45	74.19

TABLE 75—*Relative prices in Hamburg of certain groups—Calculations of Prof. Conrad—Concluded.*

[1871 to 1880=100.]

Year.	Group I. —Coffee, cocoa, tea, pepper, rice, su- gar.	Group II. —Cotton, silk.	Group III.—In- digo, salt- petre, fish oil, palm oil.	Group IV.—Pig iron, zinc, tin, cop- per, lead.	Group V. —Coal.	Group VI.— Wheat, rye, bar- ley, oats.	Groups I to VI.— Average of 22 arti- cles.	Simple average of 318 arti- cles in- cluded in Hamburg quota- tions.
1881–1885.....	72.23	79.75	89.41	69.11	70.79	87.33	80.41	81.60
1886.....	59.82	71.69	72.17	57.05	67.42	70.97	68.66	73.38
1887.....	80.91	68.95	70.30	60.07	61.80	63.40	64.33	73.52
1888.....	77.30	72.24	68.56	63.39	62.92	59.27	62.17	68.57
1889.....	95.59	75.16	71.25	71.74	73.03	63.06	68.38	72.76
1890.....	87.17	69.97	60.23	77.46	88.76	69.95	74.76	72.80
1891.....	86.51	65.60	66.51	69.23	91.01	85.48	83.93	70.61

This table of relative prices is singularly rich in varied and interesting comparisons. The first line gives the comparison of 1871 to 1880 with 1847 to 1867, and it appears that, with exception of silk and cotton, prices for the groups given were higher during the latter period. It is also true of the 22 articles as a whole, the average being that of all the articles and not of the six group averages. Furthermore the result for these 22 articles is substantially confirmed by that for the entire Hamburg list of 318 articles.

A further series of figures gives comparisons of the years 1881 to 1891 with the whole preceding period since 1847. It is quite characteristic that in all the columns there is but one place where the price of a group exceeds 100. Prices rule before 1885 about 15 per cent, and since that year about 30 per cent lower. An exception is to be noted for the year 1891, when the high price of the cereals advances prices considerably.

If we follow the details of a third series of figures, where the period 1871 to 1880 represents 100, we find similar results. Throughout the past decade prices have been noticeably lower than in that which preceded it. Thus in the year 1890 general prices are 25 per cent lower than in the decade 1871 to 1880.

GERMANY—PRUSSIAN STATISTICS.

Statistics of prices are annually published by the Royal Prussian Statistical Bureau. These "Prices of articles in 165 markets in Prussia" contain figures for some 17 articles of common use, exclusively food products. One of the noticeable features of these investigations is the large number of places for which prices are noted. The method of combination, therefore, as well as that of collection, deserves some notice.

The prices are reported at the close of each month to the statistical bureau by the local police authorities. These reports give prices for certain articles upon market days which vary in number in different places, while for other articles sold in stores a single quotation suffices. In the case of wheat, rye, barley, and oats report is made of the qualities styled good, medium, and poor, and also, if possible, of the amount offered for sale. Each day, when prices are reported, the highest and lowest are given.

The reported prices are wholesale prices; but since many of the 165

points are small towns, where an active wholesale trade can hardly be expected to exist, it seems probable that the prices reported approximate retail prices.

The statistical bureau publishes in each month the highest and lowest price, irrespective of quality. The towns are arranged by provinces, and the summary gives for each province the highest, lowest, and mean price. The last is calculated from the various figures for the towns, and is not the mean between the highest price for the province and the lowest. In Berlin a mean is calculated from all the reported prices; but this is the only exception to the rule stated. This gives thirteen monthly means for the various provinces and Berlin. A yearly mean per province is then obtained, and the mean for the state is the average of these results.

It is the yearly mean for the state of Prussia which is given in our Table 76.

TABLE 76.—*Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures.*

Year.	1. Wheat.		2. Rye.		3. Barley.		4. Oats.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1840.....	16.70	\$1.082	10.90	\$0.659	9.80	\$0.508	10.00	\$0.345
1841.....	15.70	1.017	10.20	.617	8.30	.430	8.80	.304
1842.....	17.40	1.127	11.40	.689	9.10	.472	9.40	.325
1843.....	14.90	.965	12.60	.762	10.60	.549	11.00	.380
1844.....	13.70	.887	10.10	.611	9.10	.472	8.70	.300
1845.....	15.50	1.004	12.80	.774	10.60	.549	10.70	.370
1846.....	20.60	1.334	17.70	1.070	14.10	.731	13.20	.456
1847.....	26.30	1.704	21.50	1.300	18.40	.953	16.10	.556
1848.....	15.00	.972	9.50	.574	9.00	.466	8.90	.307
1849.....	14.70	.952	7.90	.478	7.10	.368	7.20	.249
1850.....	13.90	.900	9.10	.550	7.80	.404	8.30	.287
1851.....	15.00	.972	12.50	.756	10.40	.539	10.80	.373
1852.....	17.20	1.114	15.40	.931	13.00	.674	12.00	.415
1853.....	20.50	1.328	17.00	1.028	14.10	.731	13.50	.466
1854.....	25.80	1.671	20.80	1.257	16.90	.876	16.10	.556
1855.....	28.40	1.840	22.90	1.384	17.60	.912	16.20	.560
1856.....	27.00	1.749	21.30	1.288	17.30	.896	15.60	.539
1857.....	20.40	1.321	13.80	.834	13.50	.700	13.20	.456
1858.....	18.20	1.179	12.80	.774	12.50	.648	14.30	.494
1859.....	17.90	1.159	13.60	.822	12.60	.653	13.70	.473
1860.....	21.00	1.360	15.40	.931	14.00	.725	13.00	.449
1861.....	22.10	1.432	15.40	.931	13.80	.715	12.10	.418
1862.....	21.40	1.386	16.00	.967	12.80	.663	12.00	.415
1863.....	18.40	1.192	13.60	.822	11.80	.611	11.40	.394
1864.....	15.90	1.030	11.40	.689	11.00	.570	11.70	.404
1865.....	16.30	1.056	12.50	.756	11.20	.580	11.90	.411
1866.....	16.60	1.075	14.60	.883	13.50	.700	13.40	.463
1867.....	25.80	1.671	19.80	1.197	16.90	.876	15.60	.539
1868.....	25.00	1.619	19.70	1.191	17.50	.907	16.80	.580
1869.....	19.40	1.257	16.10	.973	15.30	.793	15.40	.532
1870.....	20.30	1.315	15.60	.943	14.20	.736	14.20	.491
1871.....	23.40	1.516	17.20	1.040	15.20	.788	14.60	.504
1872.....	24.20	1.568	16.80	1.016	15.20	.788	13.80	.477
1873.....	26.40	1.710	19.20	1.161	18.20	.943	16.00	.553
1874.....	24.00	1.555	19.80	1.197	20.00	1.036	19.20	.663
1875.....	19.60	1.270	16.60	1.004	16.80	.871	18.00	.622
1876.....	21.00	1.360	17.40	1.052	16.80	.871	17.70	.611
1877.....	23.00	1.490	17.70	1.070	16.90	.876	16.00	.553
1878.....	20.20	1.308	14.30	.865	15.70	.814	13.90	.480
1879.....	19.60	1.270	14.40	.871	14.80	.767	13.40	.463
1880.....	21.90	1.419	19.30	1.167	16.80	.871	15.20	.525
1881.....	22.00	1.425	20.20	1.221	16.60	.860	15.90	.549
1882.....	20.80	1.347	16.10	.973	15.40	.798	14.60	.504
1883.....	18.50	1.198	14.70	.889	14.60	.757	13.70	.473
1884.....	17.30	1.121	14.70	.889	14.90	.772	14.40	.497
1885.....	16.20	1.049	14.30	.865	14.30	.741	14.30	.494
1886.....	15.70	1.017	13.40	.810	13.50	.700	13.30	.459
1887.....	16.40	1.062	12.50	.756	12.80	.663	11.30	.390
1888.....	17.40	1.127	13.50	.816	13.50	.700	13.00	.449
1889.....	18.30	1.185	15.60	.943	15.10	.782	15.10	.522
1890.....	19.20	1.244	17.00	1.028	16.50	.855	16.00	.553
1891.....	22.20	1.438	20.80	1.257	17.10	.886	16.20	.560

TABLE 76.—Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures—Continued.

Year.	5. Pease, for cooking.		6. Beans.		7. Lentils.		8. Potatoes.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.
	Marks.		Marks.		Marks.		Marks.	
1840.....								
1841.....								
1842.....								
1843.....								
1844.....								
1845.....								
1846.....								
1847.....								
1848.....								
1849.....								
1850.....								
1851.....								
1852.....								
1853.....								
1854.....								
1855.....								
1856.....								
1857.....								
1858.....								
1859.....								
1860.....								
1861.....	16. 90	\$1. 168					5. 60	\$0. 363
1862.....	16. 60	1. 147					4. 95	. 321
1863.....	14. 40	. 995					4. 10	. 266
1864.....	14. 50	1. 002					4. 20	. 272
1865.....	15. 40	1. 064					4. 05	. 262
1866.....	17. 00	1. 175					4. 10	. 266
1867.....	18. 90	1. 306					5. 90	. 382
1868.....	19. 90	1. 375					5. 25	. 340
1869.....	17. 70	1. 223					4. 35	. 282
1870.....	17. 00	1. 175					5. 20	. 337
1871.....	20. 00	1. 382					6. 10	. 395
1872.....	19. 40	1. 340					5. 90	. 382
1873.....	21. 60	1. 492	31. 00	\$2. 008	33. 00	\$2. 280	6. 00	. 389
1874.....	24. 60	1. 700	33. 40	2. 163	37. 40	2. 584	6. 70	. 434
1875.....	26. 60	1. 838	35. 00	2. 267	42. 80	2. 957	5. 50	. 356
1876.....	25. 00	1. 727	28. 50	1. 846	39. 50	2. 729	5. 65	. 366
1877.....	23. 30	1. 610	29. 20	1. 891	37. 10	2. 563	6. 35	. 411
1878.....	22. 00	1. 520	28. 60	1. 853	35. 00	2. 418	5. 65	. 366
1879.....	21. 40	1. 479	27. 50	1. 781	34. 50	2. 384	6. 15	. 398
1880.....	24. 20	1. 672	30. 60	1. 982	41. 40	2. 860	6. 50	. 421
1881.....	25. 00	1. 727	30. 80	1. 995	44. 40	3. 068	5. 70	. 369
1882.....	24. 10	1. 665	30. 80	1. 995	45. 40	3. 137	4. 95	. 321
1883.....	23. 70	1. 637	30. 80	1. 995	44. 60	3. 081	6. 15	. 398
1884.....	23. 70	1. 637	30. 30	1. 963	43. 30	2. 992	4. 90	. 317
1885.....	22. 10	1. 527	29. 30	1. 898	40. 20	2. 777	4. 60	. 298
1886.....	20. 80	1. 437	28. 00	1. 814	43. 40	2. 999	4. 10	. 266
1887.....	20. 50	1. 416	26. 60	1. 723	44. 60	3. 081	4. 60	. 298
1888.....	20. 40	1. 409	28. 60	1. 853	45. 90	3. 171	5. 15	. 334
1889.....	22. 10	1. 527	29. 40	1. 904	46. 60	3. 220	5. 25	. 340
1890.....	22. 70	1. 568	28. 30	1. 833	45. 10	3. 116	4. 95	. 321
1891.....	23. 70	1. 637	28. 40	1. 840	44. 20	3. 054	7. 35	. 476

TABLE 76.—Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures—Continued.

Year.	9. Straw.		10. Hay.		11. Beef.		12. Pork.	
	Per 100 kilos.	Per ton (2,240 lbs.).	Per 100 kilos.	Per ton (2,240 lbs.).	Per kilo.	Per pound.	Per kilo.	Per pound.
	Marks.		Marks.		Marks.		Marks.	
1840.....								
1841.....								
1842.....								
1843.....								
1844.....								
1845.....								
1846.....								
1847.....								
1848.....								
1849.....								
1850.....								
1851.....								
1852.....								
1853.....								
1854.....								
1855.....								
1856.....								
1857.....								
1858.....								
1859.....								
1860.....								
1861.....	3.25	\$7.859	4.70	\$11.365	0.82	\$0.089	1.00	\$0.108
1862.....	3.20	7.738	4.70	11.365	.83	.090	1.05	.113
1863.....	3.35	8.101	5.55	13.420	.82	.089	1.00	.108
1864.....	3.45	8.342	6.85	16.564	.80	.086	.90	.097
1865.....	4.50	10.881	7.65	18.498	.82	.089	.93	.100
1866.....	4.75	11.486	6.60	15.959	.85	.092	1.00	.108
1867.....	3.45	8.342	5.40	13.058	.92	.099	1.08	.117
1868.....	3.95	9.551	5.80	14.025	.95	.103	1.15	.124
1869.....	4.35	10.519	6.40	15.476	.93	.100	1.15	.124
1870.....	4.35	10.519	7.15	17.289	.97	.105	1.15	.124
1871.....	4.80	11.607	6.80	16.443	1.00	.108	1.13	.122
1872.....	3.90	9.431	5.30	12.816	1.13	.122	1.22	.132
1873.....	3.95	9.551	6.50	15.718	1.23	.133	1.35	.146
1874.....	4.40	10.640	7.90	19.103	1.24	.134	1.34	.145
1875.....	5.15	12.453	9.40	22.730	1.13	.122	1.26	.136
1876.....	7.20	17.410	8.50	20.554	1.13	.122	1.31	.141
1877.....	6.05	14.629	7.10	17.168	1.15	.124	1.29	.139
1878.....	4.00	9.672	5.20	12.574	1.17	.126	1.23	.133
1879.....	4.00	9.672	5.35	12.937	1.15	.124	1.15	.124
1880.....	4.80	11.607	6.20	14.992	1.14	.123	1.22	.132
1881.....	6.15	14.871	7.40	17.894	1.14	.123	1.28	.138
1882.....	5.20	12.574	6.90	16.685	1.16	.125	1.28	.138
1883.....	4.10	9.914	6.45	15.597	1.20	.130	1.28	.138
1884.....	4.30	10.398	6.15	14.871	1.20	.130	1.20	.130
1885.....	3.85	9.310	5.45	13.179	1.19	.128	1.20	.130
1886.....	4.55	11.002	6.00	14.508	1.17	.126	1.19	.128
1887.....	4.60	11.123	6.05	14.629	1.13	.122	1.15	.124
1888.....	4.85	11.728	6.85	16.564	1.12	.121	1.14	.123
1889.....	5.95	14.388	6.65	16.080	1.17	.126	1.28	.138
1890.....	5.25	12.695	5.60	13.541	1.26	.136	1.39	.150
1891.....	4.70	11.365	5.55	13.420	1.28	.138	1.30	.140

TABLE 76.—*Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures—Concluded.*

Year.	13. Veal.		14. Mutton.		15. Bacon.		16. Butter.		17. Eggs.	
	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per schock.	Per dozen.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1840.....										
1841.....										
1842.....										
1843.....										
1844.....										
1845.....										
1846.....										
1847.....										
1848.....										
1849.....										
1850.....										
1851.....										
1852.....										
1853.....										
1854.....										
1855.....										
1856.....										
1857.....										
1858.....										
1859.....										
1860.....										
1861.....							1.62	\$0.175		
1862.....							1.67	.180		
1863.....							1.63	.176		
1864.....							1.72	.186		
1865.....							1.82	.196		
1866.....							1.75	.189		
1867.....							1.75	.189		
1868.....							1.90	.205		
1869.....							1.98	.214		
1870.....							1.93	.208		
1871.....							2.00	.216		
1872.....							2.18	.235		
1873.....	1.05	\$0.113	1.15	\$0.124	1.85	\$0.200	2.38	.257	3.37	\$0.160
1874.....	1.02	.110	1.14	.123	1.86	.201	2.52	.272	3.38	.161
1875.....	.94	.101	1.06	.114	1.84	.199	2.48	.268	3.54	.169
1876.....	.98	.106	1.07	.116	1.90	.205	2.45	.264	3.44	.164
1877.....	1.00	.108	1.08	.117	1.88	.203	2.35	.254	3.32	.158
1878.....	1.01	.109	1.09	.118	1.79	.193	2.15	.232	3.20	.152
1879.....	.98	.106	1.08	.117	1.66	.179	2.05	.221	3.19	.152
1880.....	.98	.106	1.08	.117	1.71	.185	2.20	.238	3.22	.153
1881.....	.98	.106	1.09	.118	1.79	.193	2.27	.245	3.32	.158
1882.....	1.00	.108	1.11	.120	1.82	.196	2.28	.246	3.26	.155
1883.....	1.03	.111	1.15	.124	1.84	.199	2.30	.248	3.30	.157
1884.....	1.02	.110	1.14	.123	1.75	.189	2.21	.239	3.27	.156
1885.....	1.02	.110	1.13	.122	1.71	.185	2.12	.229	3.27	.156
1886.....	1.01	.109	1.11	.120	1.69	.182	2.10	.227	3.24	.154
1887.....	1.00	.108	1.08	.117	1.64	.177	2.07	.223	3.17	.151
1888.....	.99	.107	1.07	.116	1.60	.173	2.08	.225	3.28	.156
1889.....	1.05	.113	1.12	.121	1.73	.187	2.21	.239	3.37	.160
1890.....	1.17	.126	1.21	.131	1.88	.203	2.20	.238	2.52	.168
1891.....	1.18	.127	1.25	.135	1.77	.191	2.20	.238	3.56	.169

The figures begin in 1861. While not numerous they are sufficient for interesting comparisons. They have not been used as a basis of relative prices because of their relatively small number.

The figures are interesting by reason of the broad basis upon which they rest. Numberless quotations have been used in their construction. The prices are locally widely distributed, and in the original publications afford most excellent material for local comparisons. On the other hand, it may be doubted whether the introduction of so many places strengthens the general result. The wholesale price of these articles in any province will be dominated so largely by the principal distributing points, that one quotation from a large city might give a truer picture than an average of several quotations.

There is always a danger under such a system of the insignificant

points outweighing the really important ones in the combination of any average.

GERMANY—PRICE STATISTICS OF THE IMPERIAL OFFICE.

Parallel with the Prussian figures, but differing somewhat in scope and method, are those published by the Statistical Office of the German Empire since 1879. The original figures are monthly average prices furnished by chambers of commerce or similar bodies in thirty leading markets throughout the Empire. The reports cover as many as thirty-seven articles, but there is no one point which quotes prices for every one of them. The number of quotations, therefore, varies for the different articles from a dozen or more to a single quotation. But as each city returns prices on articles whose trade is of some consequence, the number of quotations fairly represents the importance of the article. While the descriptions of the articles vary between different points, the specific description at each is carefully noted. Where the prices extend over the entire period yearly averages have been formed. But in many cases this is not done, since either all or a portion of the points fail to give complete data. Such figures as could be carried out for the entire period are given in Table 77.

TABLE 77.—*Wholesale prices of 15 commodities in Germany from 1879 to 1891, with equivalents in United States money and measures.*

Year.	1. Wheat.		2. Barley.		3. Oats.		4. Wheat flour.		5. Rape-seed oil.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1879.....	20.298	\$1.315	16.020	\$0.830	13.399	\$0.463	29.96	\$0.032	57.21	\$0.062
1880.....	22.358	1.448	17.462	.905	14.919	.515	33.02	.036	55.83	.060
1881.....	22.682	1.469	17.112	.887	15.492	.535	32.50	.025	56.18	.061
1882.....	21.207	1.374	15.891	.823	14.424	.498	32.00	.035	60.72	.066
1883.....	18.681	1.210	15.319	.794	13.297	.459	29.46	.032	71.65	.077
1884.....	17.545	1.136	15.729	.815	14.081	.486	27.00	.029	58.72	.063
1885.....	16.726	1.083	14.818	.768	14.117	.488	24.51	.026	49.71	.054
1886.....	16.500	1.069	14.126	.732	12.892	.445	23.83	.026	45.02	.049
1887.....	17.054	1.105	13.564	.703	11.172	.386	24.94	.027	47.47	.051
1888.....	17.829	1.155	14.399	.746	13.080	.452	26.08	.028	52.14	.056
1889.....	18.552	1.202	15.850	.821	14.772	.510	27.00	.029	63.89	.069
1890.....	19.532	1.265	17.498	.907	16.062	.555	28.38	.031	66.53	.072
1891.....	22.645	1.467	17.357	.899	15.855	.548	32.69	.035	61.96	.067

Year.	6. Sugar, raw.		7. Sugar, refined.		8. Coffee, Rio.		9. Rice, Rangoon		10. Pepper.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1879.....	63.19	\$0.068	79.16	\$0.085	121.74	\$0.131	28.34	\$0.031	69.99	\$0.076
1880.....	64.55	.070	80.74	.087	126.70	.137	28.53	.031	87.53	.094
1881.....	66.24	.072	83.57	.090	102.96	.111	26.91	.029	104.94	.113
1882.....	64.52	.070	82.61	.089	82.05	.089	23.71	.026	109.20	.118
1883.....	60.43	.065	76.64	.083	84.63	.091	23.95	.026	129.41	.140
1884.....	47.16	.051	63.18	.068	93.40	.101	23.87	.026	143.17	.155
1885.....	48.47	.052	61.46	.066	80.58	.087	22.91	.025	149.21	.161
1886.....	43.36	.047	55.68	.060	90.02	.097	21.27	.023	148.22	.160
1887.....	43.49	.047	55.64	.060	156.75	.169	21.07	.023	151.94	.164
1888.....	48.08	.052	60.03	.065	136.15	.147	20.94	.023	147.78	.160
1889.....	40.53	.044	66.56	.072	159.94	.173	20.93	.023	131.93	.142
1890.....	34.40	.037	57.58	.062	171.93	.186	21.63	.023	102.90	.111
1891.....	36.35	.039	58.21	.063	160.63	.173	22.22	.024	79.25	.086

TABLE 77.—*Wholesale prices of 15 commodities in Germany, from 1879 to 1891, with equivalents in United States money and measures—Concluded.*

Year.	11. Herring, Scotch.		12. Cotton.		13. Tin.		14. Copper, English.		15. Coal, English.	
	Per 150 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Pr. 1,000 kilos.	Per ton (2240lbs).
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1879.....	41.69	\$0.030	124.90	\$0.135	155.15	\$0.167	134.07	\$0.145	14.44	\$3.492
1880.....	37.85	.027	132.79	.143	184.98	.200	140.70	.152	15.02	3.632
1881.....	33.62	.024	123.26	.133	197.46	.213	136.43	.147	15.49	3.746
1882.....	37.88	.027	127.59	.138	220.84	.238	150.24	.162	14.19	3.431
1883.....	40.96	.029	109.13	.118	201.95	.218	140.79	.152	13.96	3.376
1884.....	37.28	.027	114.94	.124	179.57	.194	126.09	.136	13.78	3.332
1885.....	26.82	.019	109.98	.119	186.21	.201	97.55	.105	13.30	3.216
1886.....	25.54	.018	97.67	.105	209.47	.226	88.13	.095	13.17	3.185
1887.....	23.64	.017	105.07	.113	235.44	.254	92.89	.100	13.01	3.146
1888.....	26.01	.019	106.14	.115	254.29	.275	157.00	.169	13.42	3.245
1889.....	27.97	.020	112.96	.122	198.38	.214	115.44	.125	15.95	3.857
1890.....	28.26	.020	114.62	.124	198.92	.215	122.31	.132	18.63	4.505
1891.....	34.38	.025	89.32	.096	191.58	.207	116.02	.125	17.68	4.275

In the researches of Prof. Conrad, already mentioned, an effort has been made to obtain if possible the same results from the foregoing table. He has prepared for this purpose the table which follows:

TABLE 78.—*Relative prices in Germany for certain periods—Calculations of Prof. Conrad.*

Articles.		Average of actual prices 1879-1883.				Relative prices.		
		Quantity.	Price.	Quantity.	Price.	1884-1889. Average of 1879-1883 being 100.	1890. Average of 1879-1883 being 100.	1890. Average of 1879-1889 being 100.
			<i>Marks.</i>					
1	Wheat.....	1,000 kilos..	190.39	Bushel..	\$1.233	82.53	92.81	102.59
2	Barley.....	do	154.81	do	.802	90.14	106.95	113.03
3	Oats	do	137.86	do	.476	93.33	112.31	116.57
4	Wheat flour	100 kilos....	28.21	Pound ..	.030	81.43	90.41	100.60
5	Rape-seed oil (a).....	do	54.23	do	.059	86.98	111.61	120.15
6	Sugar, raw (a).....	do	53.15	do	.057	70.70	53.77	63.99
7	Sugar, refined (a).....	do	67.68	do	.073	74.61	71.63	83.14
8	Coffee, Rio (a).....	do	112.73	do	.122	114.83	165.98	153.56
9	Rice, Rangoon (a).....	do	22.38	do	.024	84.61	94.47	103.13
10	Pepper (a).....	do	115.16	do	.124	145.41	102.42	88.57
11	Herrings, Norwegian (a).....	Ton of 150 kilos.	27.91	do	.020	79.71	75.50	84.82
12	Cotton (a)	100 kilos....	114.58	do	.124	87.26	92.72	99.64
13	Tin	do	202.16	do	.218	109.63	103.57	98.40
14	Copper, English (a)	do	127.87	do	.138	81.49	91.23	101.48
15	Coal (a).....	1,000 kilos..	18.13	Ton	4.384	99.12	132.01	132.60
Average of relative prices.						92.12	99.83	104.15

a These prices do not correspond exactly with those of our previous table, since in making his combinations, Prof. Conrad has used other qualities or brands of articles from those adopted for the official table.

From the foregoing it will be seen that the fall of prices in the latter part of the decade 1880 to 1890 as compared with the former is not so great as in the entire decade as compared with that which preceded it. The difference between 1890 and the average of 1879 to 1889 is less marked.

Without attaching any great consequence to it we have added in the foregoing table the simple average of the 15 quotations omitted by Prof. Conrad.

AUSTRIA.

There are, in Austria, a few statistics of prices which are worthy of attention. They relate to a very limited number of articles, but cover a long period.

They form part of a volume prepared by the finance ministry, comprising materials for the study of the monetary question in Austria. The volume is replete with valuable material. In the section relating to prices and wages an attempt has been made to give retail prices of 9 articles in 33 cities or districts from the period 1830 to 1890. Blanks are not infrequent in the tables, and while cities and their surrounding districts are as a rule separated in the tabulations there are many cases when a single price stands for both. As representing probably the best figures in the compilation, since figures for towns are more easily available than for country points, and as most useful for the study in which we are at present engaged, we give the figures for Vienna, Prague, Salzburg, and Trieste.

The figures are retail prices in open market compiled from unpublished reports of the police authorities from 1827 to the present time. What rules may have governed the collection of this material we do not know, nor have we any guaranty of the identity of quality of the goods at different periods.

The prices for Vienna in our table are always for the city alone, but the Salzburg figures while as a rule for the city alone, are at other times for a very considerable district surrounding the city. Prior to 1848 the figures are for such a district including the city of Linz, from 1848 to 1876 the figures are for a smaller district, limited to the country surrounding Salzburg, while from 1876 to 1891 the figures are for the city alone. The Prague prices include quite a large district before 1877, while the same is true of the Trieste figures before 1872. The very limited scope of the figures which we present has deterred us from making any calculations of relative prices. The actual prices follow in Table 79.

TABLE 79.—Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures.

1. WHEAT.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	5.59	\$0.672	5.64	\$0.678	5.87	\$0.705	6.70	\$0.805
1841.....	5.27	.633	5.33	.640	4.85	.583	6.56	.788
1842.....	5.96	.716	5.90	.709	5.59	.672	6.50	.781
1843.....	4.87	.585	5.70	.685	6.07	.729	5.50	.661
1844.....	4.45	.535	6.10	.733	5.33	.640	5.24	.630
1845.....	5.44	.654	5.81	.698	5.27	.633	5.70	.685
1846.....	7.52	.904	7.68	.923	7.70	.925	8.27	.994
1847.....	10.03	1.205	10.72	1.288	9.26	1.113	9.21	1.107
1848.....	7.52	.904	8.15	.979	6.36	.764	7.81	.939
1849.....	7.44	.894	7.21	.866	5.70	.685	7.44	.894
1850.....	6.44	.774	7.87	.946	5.73	.689	7.64	.918
1851.....	6.78	.815	9.35	1.124	7.47	.898	7.32	.880
1852.....	7.47	.898	10.80	1.298	8.46	1.017	7.78	.935
1853.....	8.27	.994	12.11	1.455	8.89	1.068	9.95	1.196
1854.....	12.88	1.548	16.05	1.929	12.68	1.524	13.37	1.607
1855.....	13.48	1.620	14.65	1.760	12.51	1.503	12.97	1.559
1856.....	11.63	1.398	10.60	1.274	9.72	1.168	11.66	1.401
1857.....	7.44	.894	10.37	1.246	7.64	.918	9.32	1.120
1858.....	6.81	.818	9.47	1.138	7.64	.918	7.87	.946
1859.....	6.98	.839	9.00	1.082	7.91	.951	9.05	1.088
1860.....	9.19	1.104	-----	-----	9.60	1.154	9.96	1.197
1861.....	9.31	1.119	-----	-----	10.15	1.220	11.15	1.340
1862.....	8.15	.979	10.73	1.289	8.83	1.061	9.47	1.138
1863.....	7.50	.901	9.47	1.138	7.64	.918	9.00	1.082
1864.....	7.42	.892	9.57	1.150	6.88	.827	7.58	.911
1865.....	6.80	.817	7.74	.930	6.42	.771	7.17	.862
1866.....	10.04	1.206	9.23	1.109	7.11	.854	8.90	1.069
1867.....	-----	-----	11.76	1.413	11.17	1.342	9.89	1.188
1868.....	9.73	1.169	10.67	1.282	10.33	1.241	10.40	1.250
1869.....	8.10	.973	7.56	.908	8.57	1.030	8.75	1.051
1870.....	9.29	1.116	10.22	1.228	9.41	1.131	8.97	1.078
1871.....	10.56	1.269	11.32	1.360	10.20	1.226	9.60	1.154
1872.....	10.97	1.318	12.05	1.448	10.76	1.293	10.01	1.203
1873.....	13.32	1.601	13.51	1.623	12.03	1.446	11.05	1.328
1874.....	11.92	1.432	12.03	1.446	11.07	1.330	10.58	1.271
1875.....	9.11	1.095	9.67	1.162	8.83	1.061	8.77	1.054
1876.....	13.01	1.563	10.36	1.245	9.46	1.137	11.84	1.423
1877.....	15.55	1.869	11.53	1.386	11.03	1.325	7.50	.901
1878.....	8.79	1.056	9.39	1.128	9.22	1.108	10.30	1.238
1879.....	8.88	1.067	8.76	1.053	8.96	1.077	11.40	1.370
1880.....	9.93	1.193	10.45	1.256	9.97	1.198	9.60	1.154
1881.....	9.90	1.190	9.95	1.196	9.84	1.182	11.43	1.374
1882.....	9.29	1.116	9.37	1.126	9.10	1.094	11.43	1.374
1883.....	8.76	1.053	7.12	.856	7.85	.943	10.84	1.303
1884.....	10.29	1.237	7.58	.911	8.21	.987	7.15	.859
1885.....	7.16	.860	6.55	.787	7.76	.933	9.32	1.120
1886.....	7.28	.875	6.90	.829	7.60	.913	7.14	.858
1887.....	7.12	.856	7.03	.845	7.86	.945	6.92	.832
1888.....	6.57	.789	6.21	.746	6.97	.838	8.55	1.027
1889.....	6.84	.822	5.76	.692	6.90	.829	6.53	.785
1890.....	7.05	.847	6.94	.834	6.97	.838	6.49	.780
1891.....	-----	-----	7.86	.945	-----	-----	7.27	.874

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Continued.*

2. RYE.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	3.90	\$0.469	3.51	\$0.422	4.22	\$0.507	4.79	\$0.576
1841.....	3.42	.411	3.33	.400	3.22	.387	4.53	.544
1842.....	3.33	.400	3.33	.400	3.25	.391	4.25	.511
1843.....	3.48	.418	3.53	.424	4.67	.561	3.73	.448
1844.....	2.74	.329	4.25	.511	3.85	.463	3.62	.435
1845.....	5.19	.624	4.73	.568	4.13	.496	3.73	.448
1846.....	5.39	.648	6.33	.761	6.07	.729	4.70	.565
1847.....	7.55	.907	7.15	.859	7.50	.901	4.82	.579
1848.....	4.87	.585	5.42	.651	4.30	.517	5.30	.637
1849.....	4.28	.514	4.28	.514	3.36	.404	4.93	.593
1850.....	3.82	.459	5.42	.651	3.73	.448	4.79	.576
1851.....	4.87	.585	7.30	.877	5.61	.674	4.93	.592
1852.....	6.38	.767	9.46	1.137	7.50	.901	5.13	.616
1853.....	6.21	.746	9.72	1.168	7.21	.866	6.81	.818
1854.....	9.23	1.109	11.49	1.381	10.46	1.257	9.95	1.196
1855.....	9.15	1.100	10.52	1.264	10.12	1.216	9.35	1.124
1856.....	7.07	.850	6.93	.833	7.04	.846	7.61	.914
1857.....	4.42	.531	6.58	.791	4.87	.585	6.53	.785
1858.....	4.17	.501	5.51	.662	4.87	.585	5.31	.638
1859.....	4.71	.566	5.82	.699	5.54	.666	6.06	.728
1860.....	5.67	.681	.....	.....	6.93	.833	6.67	.802
1861.....	7.66	.921	.....	.....	7.53	.905	7.55	.907
1862.....	5.22	.627	7.68	.923	6.32	.759	6.91	.830
1863.....	4.79	.576	6.23	.749	5.10	.613	6.45	.775
1864.....	4.76	.572	6.08	.731	4.60	.553	5.48	.659
1865.....	4.04	.485	4.97	.597	4.43	.532	5.22	.627
1866.....	6.83	.821	6.05	.727	6.62	.796	6.11	.734
1867.....	.....	.....	8.45	1.015	8.59	1.032	6.15	.739
1868.....	6.63	.797	7.60	.913	8.08	.971	7.12	.856
1869.....	5.69	.684	9.44	1.134	6.86	.824	5.25	.631
1870.....	6.39	.768	6.47	.778	7.12	.856	6.08	.731
1871.....	6.44	.774	7.02	.844	7.27	.874	6.81	.818
1872.....	6.59	.792	7.45	.895	6.91	.830	6.01	.722
1873.....	9.44	1.134	8.76	1.053	8.41	1.011	6.98	.839
1874.....	8.83	1.061	8.83	1.061	8.66	1.041	6.67	.802
1875.....	6.55	.787	7.11	.854	6.94	.834	5.57	.669
1876.....	10.40	1.250	7.11	.854	7.65	.919	7.98	.959
1877.....	11.96	1.437	6.94	.834	8.51	1.023	6.03	.725
1878.....	5.90	.709	6.05	.727	6.27	.753	6.70	.805
1879.....	5.98	.719	5.50	.661	6.23	.749	7.51	.902
1880.....	8.76	1.053	6.94	.834	7.99	.960	9.65	1.160
1881.....	7.73	.929	7.57	.910	8.23	.989	8.49	1.020
1882.....	6.43	.773	6.43	.773	6.68	.803	8.49	1.020
1883.....	6.32	.759	5.65	.679	6.60	.793	8.23	.989
1884.....	9.14	1.098	5.54	.666	6.84	.822	4.68	.562
1885.....	5.78	.695	5.45	.655	6.30	.757	7.49	.900
1886.....	5.40	.649	4.74	.570	5.80	.697	4.90	.589
1887.....	5.21	.626	4.49	.540	5.67	.681	4.71	.566
1888.....	4.84	.582	4.02	.483	5.32	.639	6.50	.781
1889.....	5.40	.649	4.32	.519	5.30	.637	4.55	.547
1890.....	6.01	.722	5.43	.653	6.46	.776	.....	.....
1891.....	.....	.....	6.36	.752	.....	.....	.....	.....

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Continued.*

3. BARLEY.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	3.16	\$0.380	3.36	\$0.404	3.31	\$0.398	4.99	\$0.600
1841.....	2.88	.346	2.57	.309	2.51	.302	4.56	.548
1842.....	3.08	.370	2.54	.305	2.59	.311	4.50	.541
1843.....	2.59	.311	2.79	.335	3.82	.459	4.02	.483
1844.....	2.00	.240	3.45	.415	2.88	.346	4.13	.496
1845.....	2.59	.311	3.59	.431	3.14	.377	4.33	.520
1846.....	3.76	.452	4.99	.600	4.65	.559	6.50	.781
1847.....	5.24	.630	5.42	.651	5.90	.709	6.36	.764
1848.....	3.42	.411	3.76	.452	3.51	.422	5.27	.633
1849.....	3.48	.418	3.76	.452	2.79	.335	4.87	.585
1850.....	3.31	.398	4.65	.559	3.11	.374	4.70	.565
1851.....	4.13	.496	7.04	.846	4.59	.552	4.25	.511
1852.....	4.79	.576	6.64	.798	5.36	.644	4.65	.559
1853.....	4.82	.579	7.50	.901	5.53	.665	7.47	.898
1854.....	6.18	.743	8.41	1.011	7.78	.935	9.21	1.107
1855.....	6.44	.774	8.07	.970	7.38	.887	8.58	1.031
1856.....	5.27	.633	5.53	.665	5.30	.637	7.32	.880
1857.....	3.82	.459	4.90	.589	4.10	.493	6.38	.767
1858.....	3.16	.380	4.79	.576	4.22	.507	5.36	.644
1859.....	3.85	.463	5.61	.674	4.58	.550	5.87	.705
1860.....	4.16	.500	.....	.....	5.74	.690	6.18	.743
1861.....	5.44	.654	.....	.....	5.84	.702	6.67	.802
1862.....	4.27	.513	7.30	.877	4.82	.579	6.16	.740
1863.....	3.93	.472	5.26	.632	3.99	.479	5.93	.713
1864.....	4.22	.507	5.44	.654	4.52	.543	4.96	.596
1865.....	2.85	.342	4.42	.531	3.46	.416	4.97	.597
1866.....	4.55	.547	5.33	.640	5.10	.613	6.16	.740
1867.....	5.43	.653	6.78	.815	6.39	.768	7.03	.845
1868.....	4.40	.529	6.46	.776	6.37	.765	7.30	.877
1869.....	4.48	.538	6.18	.743	5.80	.697	6.30	.757
1870.....	6.34	.762	6.11	.734	5.74	.690	6.18	.743
1871.....	4.94	.594	6.75	.811	5.98	.719	5.49	.660
1872.....	5.10	.613	6.73	.809	5.80	.697	5.09	.612
1873.....	6.49	.780	8.34	1.002	6.93	.833	5.36	.644
1874.....	6.44	.774	7.99	.960	7.22	.868	5.82	.699
1875.....	4.63	.556	6.57	.790	5.75	.691	5.36	.644
1876.....	7.56	.908	6.81	.818	6.03	.725	8.18	.983
1877.....	7.68	.923	7.42	.892	7.10	.853	5.77	.693
1878.....	4.12	.495	7.11	.854	6.17	.741	5.64	.678
1879.....	4.93	.592	7.00	.841	5.89	.708	7.38	.887
1880.....	4.83	.580	6.23	.749	6.15	.739	9.36	1.125
1881.....	5.15	.619	6.35	.763	5.68	.683	.....	.....
1882.....	5.16	.620	5.90	.709	5.52	.663	.....	.....
1883.....	5.49	.660	4.95	.595	5.50	.661	.....	.....
1884.....	9.47	1.138	5.28	.634	5.84	.702	.....	.....
1885.....	5.11	.614	4.56	.548	5.51	.662	6.37	.765
1886.....	4.71	.566	4.40	.529	5.01	.602	.....	.....
1887.....	4.57	.549	4.22	.507	4.57	.549	.....	.....
1888.....	4.52	.543	4.87	.585	5.15	.619	.....	.....
1889.....	5.41	.650	5.18	.622	5.10	.613	.....	.....
1890.....	5.20	.625	5.26	.632	5.50	.661	.....	.....
1891.....	.....	.....	5.45	.655	.....	.....	.....	.....

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Continued.*

4. CORN.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	4.65	\$0.559					4.73	\$0.568
1841.....	3.85	.463			6.84	\$0.822	3.56	.428
1842.....	4.56	.548					3.71	.446
1843.....	4.22	.507					3.82	.459
1844.....	3.48	.418					3.56	.428
1845.....	3.96	.476					3.45	.415
1846.....	4.70	.565					4.93	.592
1847.....	7.15	.859	7.70	\$0.925			6.01	.722
1848.....	4.50	.541	6.50	.781			5.04	.606
1849.....	4.85	.583					4.79	.576
1850.....	4.96	.596			14.88	1.788	4.99	.600
1851.....	5.27	.633			15.39	1.849	4.79	.576
1852.....	5.59	.672	7.21	.866			5.53	.665
1853.....	6.04	.726	8.72	1.048			7.21	.866
1854.....	7.35	.883	9.46	1.137	10.72	1.288	9.69	1.164
1855.....	7.41	.890	11.74	1.411	9.15	1.100	8.18	.983
1856.....	5.64	.678	8.01	.963	8.78	1.055	6.58	.791
1857.....	4.96	.596	7.81	.939	7.41	.890	6.33	.761
1858.....	5.40	.649	8.98	1.079	6.54	.786	5.22	.627
1859.....	5.28	.634	9.06	1.089	6.89	.828	5.95	.715
1860.....	5.98	.719			9.75	1.172	6.75	.811
1861.....	6.28	.755			7.71	.926	7.63	.917
1862.....	6.96	.836	11.92	1.432	8.31	.999	6.32	.759
1863.....	5.84	.702	8.56	1.029	12.83	1.542	5.75	.691
1864.....	6.34	.762	9.08	1.091	11.43	1.374	5.20	.625
1865.....	4.68	.562	8.30	.997	9.03	1.085	5.09	.612
1866.....	5.85	.703	8.26	.993	7.40	.889	6.26	.752
1867.....	7.09	.852	8.82	1.060	7.73	.929	6.55	.787
1868.....	5.61	.674	7.73	.929	6.60	.793	6.57	.790
1869.....	5.33	.640	7.22	.868	6.99	.840	5.48	.659
1870.....	6.01	.722	8.36	1.005	6.76	.812	5.93	.713
1871.....	6.05	.727	9.47	1.138	6.67	.802	7.12	.856
1872.....	6.80	.817	9.40	1.130	8.12	.976	5.15	.619
1873.....	7.34	.882	10.31	1.239	10.24	1.231	5.69	.684
1874.....	7.19	.864	8.88	1.067	8.13	.977	7.14	.858
1875.....	4.66	.560	7.32	.880	6.57	.790	5.35	.643
1876.....	7.77	.934	8.67	1.042	5.13	.616		
1877.....	8.99	1.080	6.70	.805	6.57	.790	6.84	.822
1878.....	5.74	.690	6.56	.788	6.29	.756	6.84	.822
1879.....	5.10	.613	8.50	1.021	5.58	.671	8.21	.987
1880.....	6.30	.757	6.00	.721	5.85	.703	7.93	.953
1881.....	5.77	.693	4.70	.565	6.34	.762	7.97	.958
1882.....	6.42	.771	4.84	.582	5.33	.640		
1883.....	5.98	.719	5.37	.645	6.22	.747	7.88	.947
1884.....	7.76	.933	5.68	.683	5.64	.678	5.15	.619
1885.....	5.21	.626	5.23	.628	5.88	.707	6.68	.803
1886.....	5.00	.601	5.74	.690	5.33	.640	4.70	.565
1887.....	5.17	.621	5.61	.674	5.68	.683	4.60	.553
1888.....	5.27	.633	5.43	.653	5.42	.651	6.43	.773
1889.....	4.76	.572	5.17	.621	5.44	.654	4.35	.523
1890.....	4.85	.583	5.28	.634	5.05	.607	4.15	.499
1891.....			6.07	.729			5.09	.612

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Continued.*

5. OATS.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	2.74	\$0.329	2.00	\$0.240	1.77	\$0.213	3.33	\$0.400
1841.....	2.57	.308	1.94	.233	1.65	.198	3.02	.363
1842.....	2.51	.302	1.82	.219	1.77	.213	2.79	.335
1843.....	2.37	.285	2.14	.257	2.54	.305	2.79	.335
1844.....	2.05	.246	2.31	.278	1.68	.202	2.79	.335
1845.....	2.34	.281	1.85	.222	1.85	.222	2.99	.359
1846.....	2.11	.254	2.65	.318	2.42	.291	3.90	.469
1847.....	3.62	.435	2.94	.353	3.02	.363	3.65	.439
1848.....	2.71	.326	2.48	.298	2.02	.243	3.73	.448
1849.....	3.02	.363	2.48	.298	2.08	.250	3.93	.472
1850.....	2.99	.359	2.79	.335	2.22	.267	3.85	.463
1851.....	3.71	.446	3.96	.476	2.85	.342	3.96	.476
1852.....	3.68	.442	3.93	.472	3.02	.363	3.99	.479
1853.....	3.96	.476	3.65	.439	3.14	.377	4.70	.565
1854.....	4.96	.596	4.59	.552	4.42	.531	5.39	.648
1855.....	4.28	.514	4.65	.559	3.65	.439	5.39	.648
1856.....	3.48	.418	3.16	.380	2.99	.359	4.56	.548
1857.....	3.42	.411	3.22	.387	2.96	.356	4.28	.514
1858.....	3.36	.404	3.54	.425	3.23	.388	3.88	.466
1859.....	3.91	.470	4.19	.504	3.46	.416	4.63	.556
1860.....	3.49	.419	.....	.....	3.47	.417	4.42	.531
1861.....	3.73	.448	.....	.....	3.21	.386	4.58	.550
1862.....	3.60	.433	3.90	.469	2.77	.333	4.06	.488
1863.....	3.60	.433	3.37	.405	2.89	.347	4.17	.501
1864.....	3.81	.458	3.65	.439	2.87	.345	3.78	.454
1865.....	2.66	.320	2.74	.329	2.46	.296	3.72	.447
1866.....	3.60	.433	3.06	.368	3.18	.382	4.27	.513
1867.....	3.60	.433	3.64	.437	3.65	.439	3.90	.469
1868.....	3.67	.441	3.92	.471	4.09	.491	3.99	.479
1869.....	3.65	.439	3.62	.435	3.91	.470	4.03	.484
1870.....	4.24	.510	4.19	.504	3.90	.469	4.21	.506
1871.....	4.08	.490	4.27	.513	3.91	.470	3.65	.439
1872.....	3.77	.453	3.90	.469	3.41	.410	2.93	.352
1873.....	3.81	.458	4.26	.512	3.83	.460	3.10	.373
1874.....	4.52	.543	4.94	.594	4.84	.582	4.11	.494
1875.....	3.88	.466	4.43	.532	4.34	.522	3.60	.433
1876.....	4.09	.491	4.69	.564	4.47	.537	8.98	1.079
1877.....	3.69	.443	4.16	.500	4.13	.496	4.00	.481
1878.....	3.33	.400	3.61	.434	3.56	.428	4.12	.495
1879.....	2.94	.353	3.37	.405	3.53	.424	7.38	.887
1880.....	3.25	.391	3.57	.429	3.82	.459	8.23	.989
1881.....	3.18	.382	3.79	.455	3.93	.472	.....	.....
1882.....	3.30	.397	3.61	.424	3.81	.458	7.97	.958
1883.....	3.10	.373	2.80	.336	3.39	.407	7.24	.870
1884.....	3.38	.406	2.99	.359	3.64	.437	3.25	.391
1885.....	3.13	.376	3.31	.398	3.66	.440	8.03	.965
1886.....	3.02	.363	3.13	.376	3.46	.411	3.31	.398
1887.....	2.74	.329	2.72	.327	2.94	.353	2.93	.352
1888.....	2.57	.309	2.67	.321	2.80	.336	6.05	.727
1889.....	2.93	.352	2.89	.347	2.75	.330	2.61	.314
1890.....	3.46	.416	3.61	.434	3.94	.473	2.97	.357
1891.....	.....	.....	3.17	.381	.....	.....	2.87	.345

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Continued.*

6. POTATOES.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.	Per hec- toliter.	Per bushel.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	1.51	\$0.181	0.77	\$0.093	0.97	\$0.117	2.31	\$0.278
1841.....	1.17	.141	.71	.085	.80	.096	2.51	.302
1842.....	1.91	.230	.74	.089	1.05	.126	2.51	.302
1843.....	1.94	.233	.97	.117	1.85	.222	2.25	.270
1844.....	1.28	.154	1.08	.130	1.23	.148	2.08	.250
1845.....	1.17	.141	.91	.109	1.17	.141	2.08	.250
1846.....	2.05	.246	1.20	.144	1.58	.190	2.79	.335
1847.....	3.65	.439	2.51	.302	2.19	.263	3.82	.459
1848.....	2.79	.335	2.31	.278	1.65	.198	4.65	.559
1849.....	2.08	.250	2.05	.246	1.17	.141	4.42	.531
1850.....	2.02	.243	2.28	.274	1.31	.157	3.82	.459
1851.....	2.45	.294	3.22	.387	1.97	.237	4.33	.520
1852.....	3.56	.428	3.51	.422	2.08	.250	4.67	.561
1853.....	2.22	.267	3.65	.439	2.17	.261	5.47	.657
1854.....	3.45	.415	4.02	.483	3.14	.377	6.30	.757
1855.....	3.59	.431	3.53	.424	2.62	.315	5.16	.620
1856.....	2.68	.322	2.82	.339	1.74	.209	4.33	.520
1857.....	2.42	.291	2.68	.322	1.25	.150	3.79	.455
1858.....	2.85	.342	2.71	.326	1.45	.174	3.50	.421
1859.....	2.59	.311	2.95	.354	1.65	.198	3.99	.479
1860.....	2.95	.354	.....	.....	2.10	.252	4.38	.526
1861.....	3.10	.373	.....	.....	2.09	.251	4.74	.570
1862.....	2.85	.342	2.14	.257	1.63	.196	4.45	.535
1863.....	2.87	.345	3.11	.374	1.56	.187	3.81	.458
1864.....	3.11	.374	2.98	.358	1.55	.186	3.36	.404
1865.....	2.00	.240	2.59	.311	1.32	.159	2.54	.305
1866.....	2.46	.296	2.74	.329	1.78	.214	5.08	.610
1867.....	3.28	.394	3.50	.421	2.43	.292	3.99	.479
1868.....	2.64	.317	2.95	.354	2.35	.282	4.16	.500
1869.....	2.67	.321	2.45	.294	2.00	.240	4.21	.506
1870.....	3.05	.367	2.72	.327	1.76	.211	3.91	.470
1871.....	2.64	.317	3.19	.383	1.99	.239	5.61	.674
1872.....	3.06	.368	3.37	.405	2.15	.258	5.61	.674
1873.....	4.55	.547	3.59	.431	2.53	.304	6.42	.771
1874.....	3.99	.479	3.33	.400	2.59	.311	7.29	.876
1875.....	2.85	.342	3.42	.411	1.84	.221	5.74	.690
1876.....	2.76	.332	3.25	.391	1.76	.211	.....	.....
1877.....	3.29	.395	3.66	.440	2.31	.278	4.60	.553
1878.....	2.65	.318	3.48	.418	2.18	.262	5.20	.625
1879.....	3.59	.431	3.12	.375	2.70	.324	6.16	.740
1880.....	4.07	.489	3.05	.367	2.85	.342	6.33	.761
1881.....	4.14	.497	3.83	.460	2.76	.332	5.80	.697
1882.....	2.99	.359	1.68	.202	2.20	.264	5.80	.697
1883.....	3.25	.391	2.31	.278	2.64	.317	6.20	.745
1884.....	4.22	.507	2.61	.314	2.07	.249	2.89	.347
1885.....	3.34	.401	2.69	.323	1.78	.214	5.57	.669
1886.....	2.14	.257	3.50	.421	1.40	.168	3.00	.361
1887.....	2.19	.383	2.15	.258	1.77	.213	2.79	.335
1888.....	2.41	.290	3.08	.370	1.48	.178	4.20	.505
1889.....	2.67	.321	2.69	.323	1.50	.180	2.65	.318
1890.....	2.63	.316	3.08	.370	1.58	.190	2.60	.312
1891.....	.....	.....	3.08	.370	.....	.....	2.49	.299

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Continued.*

7. BEEF.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	0. 28	\$0. 043	0. 18	\$0. 028	0. 21	\$0. 032	0. 23	\$0. 036
1841.....	. 28	. 043	. 18	. 028	. 20	. 031	. 23	. 036
1842.....	. 28	. 043	. 18	. 028	. 20	. 031	. 23	. 036
1843.....	. 30	. 046	. 19	. 029	. 23	. 036	. 25	. 039
1844.....	. 28	. 043	. 20	. 031	. 23	. 036	. 25	. 039
1845.....	. 30	. 046	. 20	. 031	. 23	. 036	. 25	. 039
1846.....	. 31	. 048	. 20	. 031	. 23	. 036	. 24	. 037
1847.....	. 31	. 048	. 20	. 031	. 23	. 036	. 25	. 039
1848.....	. 34	. 053	. 22	. 034	. 24	. 037	. 28	. 043
1849.....	. 37	. 057	. 30	. 046	. 25	. 039	. 28	. 043
1850.....	. 37	. 057	. 31	. 048	. 28	. 043	. 31	. 048
1851.....	. 37	. 057	. 31	. 048	. 30	. 046	. 34	. 053
1852.....	. 38	. 059	. 30	. 046	. 31	. 048	. 31	. 048
1853.....	. 37	. 057	. 30	. 046	. 31	. 048	. 31	. 048
1854.....	. 41	. 063	. 31	. 048	. 34	. 053	. 31	. 048
1855.....	. 44	. 068	. 34	. 053	. 34	. 053	. 31	. 048
1856.....	. 44	. 068	. 32	. 049	. 34	. 053	. 34	. 053
1857.....	. 41	. 063	. 32	. 049	. 31	. 048	. 34	. 053
1858.....	. 38	. 059	. 32	. 049	. 32	. 049	. 34	. 053
1859.....	. 41	. 063	. 32	. 049	. 34	. 053	. 39	. 060
1860.....	. 39	. 060	.....	.....	. 38	. 059	. 38	. 059
1861.....	. 47	. 073	.....	.....	. 43	. 067	. 39	. 060
1862.....	. 48	. 074	. 41	. 063	. 43	. 067	. 41	. 063
1863.....	. 47	. 073	. 38	. 059	. 38	. 059	. 41	. 063
1864.....	. 47	. 073	. 38	. 059	. 38	. 059	. 41	. 063
1865.....	. 41	. 063	. 36	. 056	. 36	. 056	. 38	. 059
1866.....	. 41	. 063	. 39	. 060	. 43	. 067	. 38	. 059
1867.....	. 48	. 074	. 44	. 068	. 47	. 073	. 52	. 080
1868.....	. 54	. 084	. 45	. 070	. 47	. 073	. 48	. 074
1869.....	. 57	. 088	. 45	. 070	. 50	. 077	. 53	. 082
1870.....	. 59	. 091	. 48	. 074	. 52	. 080	. 57	. 088
1871.....	. 61	. 094	. 52	. 080	. 55	. 085	. 70	. 108
1872.....	. 63	. 097	. 56	. 087	. 59	. 091	. 72	. 111
1873.....	. 61	. 094	. 61	. 094	. 61	. 094	. 79	. 122
1874.....	. 59	. 091	. 61	. 094	. 59	. 091	. 72	. 111
1875.....	. 57	. 088	. 54	. 084	. 55	. 085	. 72	. 111
1876.....	. 61	. 094	. 57	. 088	. 58	. 090	. 74	. 114
1877.....	. 62	. 096	. 66	. 102	. 63	. 097	. 74	. 114
1878.....	. 62	. 096	. 67	. 104	. 64	. 099	. 70	. 108
1879.....	. 63	. 097	. 61	. 094	. 63	. 097	. 76	. 118
1880.....	. 62	. 096	. 56	. 087	. 61	. 094	. 77	. 119
1881.....	. 63	. 097	. 58	. 090	. 61	. 094	. 62	. 096
1882.....	. 65	. 101	. 58	. 090	. 61	. 094	. 62	. 096
1883.....	. 69	. 107	. 64	. 099	. 61	. 094	. 63	. 097
1884.....	. 70	. 108	. 64	. 099	. 62	. 096	. 76	. 118
1885.....	. 70	. 108	. 60	. 093	. 62	. 096	. 62	. 096
1886.....	. 66	. 102	. 60	. 093	. 62	. 096	. 63	. 097
1887.....	. 65	. 101	. 57	. 088	. 62	. 096	. 63	. 097
1888.....	. 65	. 101	. 60	. 093	. 61	. 094	. 56	. 087
1889.....	. 64	. 099	. 60	. 093	. 62	. 096	. 58	. 090
1890.....	. 65	. 101	. 58	. 090	. 61	. 094	. 63	. 097
1891.....	.....	.....	. 64	. 099	.....	.....	. 68	. 105

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Continued.*

8. HAY.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	1.97	\$13.650	1.47	\$10.186	1.93	\$13.373	3.00	\$20.787
1841.....	2.09	14.482	1.90	13.165	2.46	17.046	3.15	21.827
1842.....	2.84	19.679	1.97	13.650	2.75	19.055	2.65	18.362
1843.....	2.53	17.531	2.09	14.482	3.21	22.242	2.00	13.858
1844.....	1.62	11.225	1.59	11.017	1.90	13.165	1.87	12.957
1845.....	1.75	12.126	1.53	10.602	1.87	12.957	2.40	16.630
1846.....	2.25	15.591	1.59	11.017	2.03	14.066	2.59	17.946
1847.....	2.40	16.630	1.75	12.126	2.50	17.323	2.56	17.739
1848.....	2.22	15.383	2.09	14.482	2.34	16.214	2.75	19.055
1849.....	2.78	19.263	2.12	14.690	2.65	18.362	3.31	22.935
1850.....	2.71	18.778	2.87	19.887	2.62	18.154	2.62	18.154
1851.....	2.84	19.679	2.81	19.471	2.81	19.471	2.40	16.630
1852.....	3.37	23.351	3.06	21.203	3.15	21.827	3.46	23.975
1853.....	3.37	23.351	2.34	16.214	3.00	20.787	3.40	23.559
1854.....	3.03	20.995	2.50	17.323	2.90	20.094	2.65	18.362
1855.....	3.28	22.728	2.93	20.302	2.65	18.362	2.93	20.302
1856.....	3.15	21.827	2.93	20.302	2.81	19.471	2.84	19.679
1857.....	4.21	29.172	3.00	20.787	3.78	26.192	2.90	20.094
1858.....	3.97	27.509	2.85	19.748	4.22	29.241	3.04	21.065
1859.....	3.51	24.321	2.74	18.986	3.56	24.668	3.11	21.550
1860.....	2.92	20.233	.....	.....	2.81	19.471	3.15	21.827
1861.....	2.85	19.748	.....	.....	2.81	19.471	3.29	22.797
1862.....	2.79	19.332	2.81	19.471	3.79	26.261	2.86	19.817
1863.....	3.45	23.905	2.72	18.847	4.10	28.409	2.76	19.124
1864.....	3.87	26.816	3.13	21.688	4.42	30.627	2.56	17.739
1865.....	2.65	18.362	2.85	19.748	4.05	28.063	3.26	22.589
1866.....	3.62	25.083	2.64	18.293	4.39	30.419	2.88	19.956
1867.....	3.15	21.827	2.57	17.808	3.13	21.688	3.44	23.836
1868.....	2.56	17.739	2.86	19.817	4.13	28.617	2.92	20.233
1869.....	3.10	21.480	2.83	19.609	4.92	34.091	3.10	21.480
1870.....	3.87	26.816	3.04	21.065	4.90	33.953	2.88	19.956
1871.....	3.56	24.668	3.06	21.203	4.60	31.874	4.67	31.648
1872.....	3.45	23.905	2.72	18.847	3.88	26.885	3.58	24.806
1873.....	3.88	26.885	2.91	20.164	4.55	31.528	3.13	21.688
1874.....	3.51	24.321	3.37	23.351	5.76	39.912	2.97	20.579
1875.....	3.78	26.192	3.24	22.450	6.09	42.198	4.01	27.786
1876.....	4.20	29.102	3.92	27.162	5.70	39.496	3.73	25.846
1877.....	3.35	23.213	3.00	20.787	5.16	35.754	3.09	21.411
1878.....	3.00	20.787	2.58	17.877	3.78	26.192	.....	.....
1879.....	2.60	18.016	2.18	15.116	3.94	27.301	3.41	23.628
1880.....	2.47	17.115	2.22	15.383	3.46	23.975	3.25	22.520
1881.....	3.13	21.688	2.16	14.967	3.45	23.905	3.28	22.728
1882.....	3.88	26.885	2.28	15.798	3.90	27.024	3.28	22.728
1883.....	4.25	29.449	3.10	21.480	5.00	34.646	3.49	24.183
1884.....	3.71	25.707	2.90	20.094	4.14	28.687	2.69	18.639
1885.....	3.64	25.222	3.80	26.331	4.09	28.340	2.77	19.194
1886.....	3.94	27.301	3.10	21.480	4.18	28.964	3.12	21.619
1887.....	3.68	25.499	2.47	17.115	3.16	21.896	3.28	22.728
1888.....	3.66	25.361	2.50	17.323	3.21	22.242	3.29	22.797
1889.....	3.49	24.183	2.99	20.718	3.18	22.035	2.77	19.194
1890.....	3.47	24.044	2.48	17.184	3.47	24.044	2.79	19.332
1891.....	.....	.....	2.38	16.491	.....	.....	3.08	21.342

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures—Concluded.*

9. STRAW.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.
	<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>		<i>Florins.</i>	
1840.....	2.22	\$15.383	1.09	\$7.553	1.37	\$9.493	1.78	\$12.334
1841.....	2.31	16.006	1.37	9.493	1.68	11.641	2.03	14.066
1842.....	2.50	17.323	1.59	11.017	1.97	13.650	1.87	12.957
1843.....	1.97	13.650	1.59	11.017	1.97	13.650	1.62	11.225
1844.....	1.50	10.394	1.31	9.077	1.06	7.345	1.44	9.978
1845.....	1.97	13.650	1.31	9.077	1.09	7.553	1.59	11.017
1846.....	2.06	14.274	1.44	9.978	1.40	9.701	1.84	12.750
1847.....	1.93	13.373	1.40	9.701	1.47	10.186	1.78	12.334
1848.....	2.34	16.214	1.56	10.809	1.28	8.869	2.06	14.274
1849.....	2.75	19.055	1.72	11.918	1.40	9.701	2.12	14.690
1850.....	2.25	15.591	1.68	11.641	1.37	9.493	1.81	12.542
1851.....	2.87	19.887	2.40	16.630	1.53	10.602	1.72	11.918
1852.....	3.03	20.995	3.15	21.827	1.90	13.165	2.22	15.383
1853.....	4.43	30.696	2.53	17.531	2.00	13.858	2.31	16.006
1854.....	3.56	24.668	2.03	14.066	1.93	13.373	1.87	12.957
1855.....	3.68	25.499	2.34	16.214	1.87	12.957	1.97	13.650
1856.....	3.00	20.787	2.31	16.006	1.93	13.373	1.84	12.750
1857.....	3.84	26.608	2.37	16.422	2.25	15.591	1.87	12.957
1858.....	3.04	21.065	2.42	16.768	2.58	17.877	1.66	11.502
1859.....	2.92	20.233	2.56	17.739	2.26	15.660	2.22	15.383
1860.....	2.81	19.471	.....	.....	1.88	13.027	1.93	13.373
1861.....	2.79	19.332	.....	.....	1.92	13.304	2.09	14.482
1862.....	3.13	21.688	2.61	18.085	1.92	13.304	1.83	12.680
1863.....	3.40	23.559	2.60	15.984	2.02	13.997	1.81	12.542
1864.....	2.61	18.085	2.61	18.085	2.08	14.413	1.72	11.918
1865.....	2.29	15.868	2.43	16.838	2.20	15.244	1.95	13.512
1866.....	2.60	15.984	2.39	16.561	2.43	16.838	2.02	13.997
1867.....	2.15	14.898	2.30	15.937	1.86	12.888	1.74	12.057
1868.....	1.81	12.542	2.51	17.392	2.52	17.461	2.18	15.105
1869.....	2.27	15.729	2.47	17.115	2.56	17.739	1.86	12.888
1870.....	3.76	26.053	2.58	17.877	2.77	19.194	2.51	17.392
1871.....	3.17	21.965	2.72	18.847	3.10	21.480	3.96	27.439
1872.....	2.61	18.085	2.57	17.808	2.29	15.868	2.72	18.847
1873.....	3.47	24.044	2.94	20.372	2.13	14.759	2.54	17.600
1874.....	2.99	20.718	3.04	21.065	2.51	17.392	2.27	15.729
1875.....	3.47	24.044	3.24	22.450	3.51	24.321	3.08	21.342
1876.....	4.28	29.657	3.86	26.746	4.34	30.072	3.74	25.915
1877.....	2.52	17.461	4.25	29.449	3.56	24.668	2.34	16.214
1878.....	2.02	13.997	2.52	24.391	2.26	15.660	2.37	16.422
1879.....	2.40	16.630	2.56	17.739	2.15	14.898	3.25	22.520
1880.....	2.37	16.422	2.44	16.907	2.10	14.551	3.15	21.827
1881.....	2.44	16.907	2.87	19.887	2.18	15.105	2.95	20.441
1882.....	2.29	15.868	2.82	19.540	2.12	14.690	2.95	20.441
1883.....	2.83	19.609	2.80	19.402	2.90	20.094	2.77	19.194
1884.....	2.83	19.609	2.70	18.709	3.07	21.272	2.63	18.224
1885.....	2.39	16.561	3.35	23.213	2.26	15.660	2.40	16.630
1886.....	3.30	22.866	3.43	23.767	2.41	16.699	3.09	21.411
1887.....	2.92	20.233	3.31	22.935	1.76	12.195	2.93	20.302
1888.....	2.65	18.362	2.61	18.085	1.89	13.096	2.73	18.916
1889.....	2.90	20.094	2.94	20.372	1.90	13.165	2.93	20.302
1890.....	2.82	19.540	3.00	20.787	2.65	18.362	2.80	19.402
1891.....	.....	.....	2.82	19.540	.....	.....	2.50	17.323

FRANCE.

The figures relied upon chiefly in France are those of export and import prices. The customs organization of that country includes a very complete and elaborate mechanism for the ascertainment of customs values. In determining the value of imported and exported goods, invoices and bills of lading are taken into consideration only so far as quantities and description are concerned. No attention is paid to the recorded price. A permanent commission of over one hundred members, divided into several sections, is charged with the oversight of the markets. At stated times they meet to fix, on the basis of current prices, the values to be assigned to articles of exportation and importation. These prices are then applied to the quantities declared at the customs offices for the ascertainment of values. Thus the prices may be said to represent a high grade expert opinion upon the subject. The duties of the commission are by no means perfunctory, and a high value is ascribed by economists to the figures which they present as the results of their labors.

We have chosen from the mass of figures which are presented certain main categories which may be carried back to the beginning of the series in 1861. A general attempt to utilize these figures in the form of relative prices has not come to my knowledge. At a later stage of the report, in summing up our general conclusions, we shall endeavor to make a comparison with other price series. For the present it will suffice to offer the actual prices in the following table:

TABLE 80.—Export prices of 38 commodities in France from 1861 to 1891, with equivalents in United States money and measures.

Year.	1. Beeves.		2. Cows.		3. Calves.		4. Sheep.		5. Hogs.	
	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.
	<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>	
1861.....	492.00	\$94.956	295.00	\$56.935	78.00	\$15.054	42.00	\$8.106	115.00	\$22.195
1862.....	450.00	86.850	290.00	55.970	78.00	15.054	40.00	7.720	110.00	21.230
1863.....	460.00	88.780	300.00	57.900	80.00	15.440	41.00	7.913	110.00	21.230
1864.....	430.00	82.990	280.00	54.040	70.00	13.510	38.00	7.334	100.00	19.300
1865.....	442.00	85.306	290.00	55.970	70.00	13.510	39.00	7.527	105.00	20.265
1866.....	486.00	93.798	310.00	59.830	77.00	14.861	44.00	8.492	110.00	21.230
1867.....	500.00	96.500	315.00	60.795	78.00	15.054	45.00	8.658	115.00	22.195
1868.....	510.00	98.430	320.00	61.760	80.00	15.440	46.00	8.878	120.00	23.160
1869.....	520.00	100.360	320.00	61.760	85.00	16.405	46.00	8.878	125.00	24.125
1870.....	520.00	100.360	320.00	61.760	85.00	16.405	46.00	8.878	125.00	24.125
1871.....	525.00	101.325	330.00	63.690	85.00	16.405	48.00	9.264	130.00	25.090
1872.....	530.00	102.290	340.00	65.620	85.00	16.405	50.00	9.650	122.00	23.546
1873.....	550.00	106.150	370.00	71.410	95.00	18.335	55.00	10.615	122.00	23.546
1874.....	500.00	96.500	310.00	59.830	80.00	15.440	50.00	9.650	120.00	23.160
1875.....	460.00	88.780	285.00	55.005	83.00	16.019	50.00	9.650	125.00	24.125
1876.....	480.00	92.640	295.00	56.935	90.00	17.370	50.00	9.650	132.00	25.476
1877.....	480.00	92.640	295.00	56.935	90.00	17.370	51.00	9.843	132.00	25.476
1878.....	490.00	94.570	300.00	57.900	93.00	17.949	50.00	9.650	115.00	22.195
1879.....	470.00	90.710	300.00	57.900	90.00	17.370	48.00	9.264	110.00	21.230
1880.....	450.00	86.850	300.00	57.900	90.00	17.370	47.00	9.071	130.00	25.090
1881.....	435.00	83.955	285.00	55.005	90.00	17.370	47.00	9.071	125.00	24.125
1882.....	460.00	88.780	305.00	58.865	95.00	18.335	50.00	5.650	115.00	22.195
1883.....	465.00	89.745	310.00	59.830	97.00	18.721	50.00	9.650	110.00	21.230
1884.....	445.00	85.885	300.00	57.900	95.00	18.335	45.00	8.685	105.00	20.265
1885.....	435.00	83.955	295.00	56.935	95.00	18.335	43.00	8.299	108.00	20.844
1886.....	430.00	82.990	292.00	56.356	95.00	18.335	41.00	7.913	112.00	21.616
1887.....	400.00	77.200	270.00	52.110	95.00	18.335	38.00	7.334	102.00	19.686
1888.....	380.00	73.340	265.00	51.145	95.00	18.335	37.00	7.141	95.00	18.335
1889.....	430.00	82.990	300.00	57.900	105.00	20.265	42.00	8.106	107.00	20.651
1890.....	480.00	92.640	330.00	63.690	105.00	20.265	45.00	8.685	112.00	21.616
1891.....	470.00	90.710	325.00	62.725	105.00	20.265	43.00	8.299	108.00	20.844

Year.	6. Butter.		7. Wheat.		8. Rice.		9. Sesamum.		10. Linseed.	
	Per kilo-gram.	Per pound.	Per quintal.	Per bushel.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.
	<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>	
1861.....	3.25	\$0.285	.....	.....	0.38	\$0.033	0.55	\$0.048	0.36	\$0.032
1862.....	3.05	.267	.....	.....	.36	.032	.58	.051	.39	.034
1863.....	3.20	.280	.....	.....	.36	.032	.55	.048	.42	.037
1864.....	3.30	.289	.....	.....	.30	.026	.60	.053	.40	.035
1865.....	3.65	.320	.....	.....	.30	.026	.60	.053	.40	.035
1866.....	3.50	.306	.....	.....	.35	.031	.54	.047	.42	.037
1867.....	3.20	.280	35.00	\$1.838	.37	.032	.65	.057	.41	.036
1868.....	3.30	.289	30.00	1.576	.32	.028	.51	.045	.37	.032
1869.....	3.45	.302	25.00	1.313	.32	.028	.49	.043	.36	.032
1870.....	3.20	.280	25.10	1.318	.35	.031	.49	.043	.36	.032
1871.....	3.00	.263	35.00	1.838	.40	.035	.55	.048	.38	.033
1872.....	3.05	.267	32.50	1.707	.42	.037	.60	.053	.40	.035
1873.....	3.20	.280	33.50	1.760	.43	.038	.54	.047	.38	.033
1874.....	3.00	.263	30.00	1.576	.35	.031	.46	.040	.36	.032
1875.....	3.15	.276	26.00	1.366	.50	.044	.41	.036	.35	.031
1876.....	3.20	.280	27.00	1.418	.52	.046	.46	.040	.31	.027
1877.....	3.10	.271	31.00	1.628	.54	.047	.46	.040	.36	.032
1878.....	2.95	.258	29.00	1.523	.54	.047	.46	.040	.37	.032
1879.....	2.95	.258	30.90	1.623	.56	.049	.45	.039	.33	.029
1880.....	3.10	.271	30.00	1.576	.56	.049	.48	.042	.33	.029
1881.....	3.10	.271	29.50	1.550	.54	.047	.45	.039	.32	.028
1882.....	3.30	.289	28.75	1.510	.53	.046	.39	.034	.28	.025
1883.....	3.30	.289	24.92	1.309	.55	.048	.36	.032	.28	.025
1884.....	3.20	.280	22.44	1.179	.55	.048	.36	.032	.28	.025
1885.....	3.10	.271	20.38	1.071	.55	.048	.37	.032	.29	.025
1886.....	3.00	.263	21.75	1.142	.35	.031	.32	.028	.25	.022
1887.....	2.85	.250	23.75	1.248	.35	.031	.32	.028	.25	.022
1888.....	2.85	.250	24.00	1.261	.30	.026	.30	.026	.28	.025
1889.....	2.85	.250	23.65	1.242	.36	.032	.31	.027	.27	.024
1890.....	2.85	.250	25.00	1.313	.37	.032	.33	.029	.28	.025
1891.....	2.85	.250	26.50	1.392	.37	.032	.35	.031	.27	.024

TABLE 80.—*Export prices of 33 commodities in France from 1861 to 1891, with equivalents in United States money and measures—Continued.*

Year.	11. Olive oil.		12. Sugar, brown native.		13. Tobacco, leaf.		14. Coffee.		15. Skins, large raw.	
	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.
	<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>	
1861.....	2.00	\$0.175	0.69	\$0.060	0.90	\$0.079	1.40	\$0.123	1.80	\$0.158
1862.....	2.00	.175	.65	.057	.90	.079	1.60	.140	1.75	.153
1863.....	2.00	.175	.65	.057	.90	.079	1.60	.140	1.70	.149
1864.....	2.00	.175	.65	.057	.90	.079	1.63	.143	1.60	.140
1865.....	1.60	.140	.50	.044	.90	.079	1.60	.140	1.45	.127
1866.....	1.50	.131	.52	.046	.90	.079	1.75	.153	1.47	.129
1867.....	1.62	.142	.51	.045	.90	.079	1.50	.131	1.45	.127
1868.....	1.50	.131	.52	.046	.90	.079	1.45	.127	1.50	.131
1869.....	1.35	.118	.58	.051	.90	.079	1.45	.127	1.34	.117
1870.....	1.40	.123	.58	.051	.90	.079	1.50	.131	1.34	.117
1871.....	1.55	.136	.68	.060	.85	.074	1.60	.140	1.50	.131
1872.....	1.65	.144	.66	.058	1.30	.114	1.88	.165	2.00	.175
1873.....	1.25	.109	.62	.054	1.20	.105	2.22	.194	1.90	.166
1874.....	1.20	.105	.55	.048	1.20	.105	2.28	.200	2.00	.175
1875.....	1.65	.144	.53	.046	.50	.044	2.19	.192	2.20	.193
1876.....	1.55	.136	.56	.049	.60	.053	2.02	.177	2.00	.175
1877.....	1.75	.153	.67	.059	.70	.061	2.07	.181	2.00	.175
1878.....	1.60	.140	.56	.049	.90	.079	1.87	.164	1.85	.162
1879.....	1.50	.131	.55	.048	.65	.057	1.78	.156	2.00	.175
1880.....	1.50	.131	.64	.056	.58	.051	1.69	.148	2.00	.175
1881.....	1.50	.131	.64	.056	.75	.066	1.51	.132	2.00	.175
1882.....	1.25	.109	.64	.056	.65	.057	1.34	.117	2.10	.184
1883.....	1.35	.118	.60	.053	.95	.083	1.39	.122	2.25	.197
1884.....	1.50	.131	.47	.041	1.40	.123	1.22	.107	2.20	.193
1885.....	1.50	.131	.47	.041	1.40	.123	1.17	.102	2.20	.193
1886.....	1.50	.131	.32	.028	1.40	.123	1.51	.132	2.10	.184
1887.....	1.43	.125	.33	.029	1.40	.123	2.07	.181	1.80	.158
1888.....	1.35	.118	.37	.032	1.25	.109	1.94	.170	1.62	.142
1889.....	1.28	.112	.40	.035	1.22	.107	2.22	.194	1.70	.149
1890.....	1.26½	.110	.32	.028	.75	.066	2.30	.201	1.95	.171
1891.....	1.04	.091	.36	.032	.75	.066	2.12½	.186	1.95	.171

Year.	16. Skins, sheep, raw.		17. Skins, lamb, raw.		18. Skins, kid, raw.		19. Coal.		20. Iron ore.	
	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per quintal.	Per 2,240 pounds.	Per kilo-gram.	Per 2,240 pounds.
	<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>	
1861.....	1.40	\$0.123	1.75	\$0.153	8.50	\$0.744	1.05	\$2.059	0.40	\$7.844
1862.....	1.85	.162	2.15	.188	9.00	.788	1.15	2.255	.40	7.844
1863.....	1.85	.162	2.15	.188	12.00	1.051	1.15	2.255	.30	5.883
1864.....	1.80	.158	2.05	.179	12.00	1.051	1.15	2.255	.30	5.883
1865.....	1.40	.123	1.75	.153	14.00	1.226	1.15	2.255	.30	5.883
1866.....	1.55	.136	4.00	.350	15.00	1.313	1.15	2.255	.30	5.883
1867.....	1.20	.105	3.50	.306	14.00	1.226	1.15	2.255	.30	5.883
1868.....	1.10	.096	3.50	.306	10.00	.875	1.15	2.255	.20	3.922
1869.....	.95	.083	3.50	.306	10.00	.875	1.15	2.255	.20	3.922
1870.....	.95	.083	3.50	.306	10.00	.875	1.15	2.255	.20	3.922
1871.....	1.10	.096	4.00	.350	11.00	.963	.87	1.706	.20	3.922
1872.....	1.40	.123	4.00	.350	9.00	.788	.87	1.706	.20	3.922
1873.....	1.80	.158	4.20	.368	8.50	.744	2.00	3.922	.15	2.947
1874.....	2.00	.175	4.20	.368	8.50	.744	1.60	3.138	.12	2.357
1875.....	2.10	.184	4.20	.368	8.50	.744	1.60	3.138	.10	1.961
1876.....	1.85	.162	3.90	.341	8.00	.700	1.60	3.138	.08	1.565
1877.....	1.70	.149	3.80	.333	7.00	.613	1.55	3.040	.07	1.372
1878.....	1.70	.149	3.40	.298	7.60	.665	1.30	2.549	.06	1.179
1879.....	1.85	.162	3.40	.298	7.60	.665	1.25	2.451	.06	1.179
1880.....	2.00	.175	3.40	.298	7.60	.665	1.50	2.941	.06	1.179
1881.....	2.20	.193	3.40	.298	7.40	.648	1.50	2.941	.07	1.372
1882.....	2.50	.219	3.40	.298	7.40	.648	1.90	3.726	.07	1.372
1883.....	3.00	.263	3.50	.306	7.40	.648	1.50	2.941	.06	1.179
1884.....	3.00	.263	3.15	.276	7.40	.648	1.50	2.941	.06	1.179
1885.....	2.70	.236	2.90	.254	7.40	.648	1.40	2.745	.06	1.179
1886.....	2.50	.219	2.60	.228	6.75	.591	1.30	2.549	.06	1.179
1887.....	2.25	.197	2.35	.206	6.40	.560	1.30	2.549	.06	1.179
1888.....	2.25	.197	2.55	.223	6.40	.560	1.50	2.941	.06	1.179
1889.....	2.45	.214	2.75	.240	6.40	.560	2.30	4.510	.06	1.179
1890.....	2.70	.236	2.85	.250	6.15	.538	2.23	4.373	.06	1.179
1891.....	2.95	.258	2.95	.258	5.75	.503	1.50	2.941	.06	1.179

TABLE 80.—Export prices of 38 commodities in France from 1861 to 1891, with equivalents in United States money and measures—Continued.

Year.	21. Copper ore.		22. Lead ore.		23. Zinc.		24. Cotton.		25. Cotton batting.	
	Per kilo-gram.	Per 2,240 pounds.	Per kilo-gram.	Per 2,240 pounds.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.
	<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>	
1861.....	1.05	\$205.892	0.40	\$78.435	0.12	\$0.011	2.20	\$0.193	3.25	\$0.285
1862.....	1.05	205.892	.40	78.435	.10	.009	3.80	.333	5.00	.438
1863.....	1.00	196.088	.40	78.435	.10	.009	4.80	.420	6.00	.525
1864.....	1.00	196.088	.40	78.435	.10	.009	4.80	.420	6.60	.578
1865.....	1.00	196.088	.40	78.435	.10	.009	3.30	.229	5.00	.438
1866.....	1.00	196.088	.40	78.435	.10	.009	3.48	.305	5.00	.438
1867.....	1.00	196.088	.25	49.022	.12½	.011	2.45	.214	3.00	.263
1868.....	.25	49.022	.25	49.022	.12½	.011	2.22	.194	3.00	.263
1869.....	.25	49.022	.25	49.022	.12½	.011	2.65	.232	3.60	.315
1870.....	.25	49.022	.25	49.022	.12	.011	2.30	.201	3.30	.289
1871.....	.45	88.240	.25	49.022	.12	.011	1.85	.162	2.30	.201
1872.....	.50	98.044	.28	54.905	.16	.014	2.33	.204	2.30	.201
1873.....	.40	78.435	.30	58.826	.19	.017	2.13	.186	2.15	.188
1874.....	.37	72.553	.28	54.905	.16	.014	1.81	.158	2.00	.175
1875.....	.40	78.435	.29	56.866	.17	.015	1.52	.133	2.00	.175
1876.....	.35	68.631	.28	54.905	.15	.013	1.45	.127	1.90	.166
1877.....	.30	58.826	.26	50.983	.13	.011	1.46	.128	1.85	.162
1878.....	.27	52.944	.20	39.218	.09½	.008	1.46	.128	1.85	.162
1879.....	.25	49.022	.18	35.296	.08	.007	1.53	.134	1.90	.166
1880.....	.27	52.944	.19½	38.242	.10	.009	1.64	.144	2.00	.175
1881.....	.25	49.022	.17½	34.320	.08	.007	1.48	.130	1.90	.166
1882.....	.26	50.983	.16½	32.360	.08½	.007	1.50	.132	1.80	.158
1883.....	.24	47.061	.14½	28.438	.07	.006	1.38	.121	1.80	.158
1884.....	.20	39.218	.12½	24.515	.06½	.006	1.46	.128	1.46	.128
1885.....	.18	35.296	.13	25.491	.07	.006	1.37	.120	1.37	.120
1886.....	.10	19.609	.14	27.452	.08	.007	1.20	.105	1.80	.158
1887.....	.10	19.609	.14	27.452	.08	.007	1.32	.116	1.80	.158
1888.....	.70	137.262	.15	29.413	.10	.009	1.30	.114	1.60	.140
1889.....	.60	117.653	.15	29.413	.17	.015	1.45	.127	1.55	.136
1890.....	1.20	235.306	.20	39.218	.21	.018	1.46	.128	1.53	.134
1891.....	1.00	196.088	.17	33.335	.21	.018	1.16	.102	1.50	.131

Year.	26. Wool.		27. Silk in cocoons.		28. Silk, unbleached, raw.		29. Silk, unbleached, thrown.		30. Cotton thread, simple, unbleached.	
	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.
	<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>		<i>Franks.</i>	
1861.....	3.00	\$0.263	18.00	\$1.576	55.50	\$4.859	78.00	\$6.828	4.10	\$0.359
1862.....	3.75	.328	19.25	1.685	59.00	5.165	83.50	7.310	6.00	.525
1863.....	4.20	.368	17.00	1.488	56.50	4.946	77.50	6.785	7.50	.657
1864.....	3.95	.346	20.50	1.795	65.50	5.734	87.50	7.660	7.75	.678
1865.....	3.50	.306	23.50	2.057	76.50	6.697	100.00	8.754	5.93	.519
1866.....	3.10	.271	22.50	1.970	76.00	6.653	98.00	8.579	5.50	.481
1867.....	2.60	.228	26.50	2.320	81.50	7.135	105.00	9.192	4.00	.350
1868.....	2.30	.201	29.50	2.583	84.00	7.354	115.00	10.068	6.00	.525
1869.....	2.10	.184	26.50	2.320	72.00	6.303	102.00	8.930	6.38	.559
1870.....	2.30	.201	23.50	2.057	68.00	5.953	98.00	8.579	6.00	.525
1871.....	3.00	.263	19.50	1.707	80.00	7.004	105.00	9.192	5.93	.519
1872.....	3.20	.280	20.50	1.795	90.00	7.004	112.00	9.805	5.28	.462
1873.....	3.00	.263	18.00	1.576	68.00	5.953	95.00	8.317	5.07	.444
1874.....	2.90	.254	12.50	1.094	54.00	4.727	77.00	6.741	4.90	.429
1875.....	2.80	.245	10.50	.919	51.50	4.509	72.00	6.303	5.05	.442
1876.....	2.50	.219	17.00	1.488	68.50	5.997	87.00	7.616	4.30	.376
1877.....	2.60	.228	14.00	1.226	57.00	4.990	74.00	6.478	3.95	.346
1878.....	2.60	.228	14.00	1.226	50.00	4.377	65.00	5.690	3.56	.312
1879.....	3.00	.263	15.00	1.313	52.00	4.552	70.00	6.128	3.60	.315
1880.....	3.50	.306	13.50	1.182	49.00	4.290	65.00	5.690	3.55	.311
1881.....	3.00	.263	13.00	1.138	52.00	4.552	69.00	6.041	3.52	.308
1882.....	2.35	.206	13.00	1.138	50.00	4.377	65.00	5.690	3.60	.315
1883.....	2.30	.201	12.50	1.094	47.00	4.115	60.00	5.253	3.47	.304
1884.....	2.20	.193	11.50	1.007	44.00	3.852	56.00	4.902	3.37	.295
1885.....	1.80	.158	11.00	.963	41.00	3.589	53.00	4.640	3.20	.280
1886.....	2.15	.188	11.75	1.029	41.00	3.589	55.00	4.815	3.00	.263
1887.....	2.00	.175	11.25	.985	39.50	3.458	53.50	4.684	3.00	.263
1888.....	2.05	.179	10.25	.897	38.50	3.370	52.50	4.596	3.00	.263
1889.....	2.25	.197	11.50	1.007	41.50	3.633	54.00	4.727	3.00	.263
1890.....	2.25	.197	12.00	1.051	43.00	3.764	51.00	4.465	3.05	.267
1891.....	2.08	.182	10.25	.897	35.00	3.064	46.00	4.027	2.70	.236

TABLE 80.—*Export prices of 38 commodities in France from 1861 to 1891, with equivalents in United States money and measures—Concluded.*

Year.	31. Woollen yarn.		32. Silk goods, pure, figured.		33. Silk goods, mixed.		34. Merinos.	
	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.
	<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>	
1861.....	10.00	\$0.875	135.00	\$11.818	76.00	\$6.653	21.00	\$1.838
1862.....	10.00	.875	133.00	11.643	70.00	6.128	20.75	1.817
1863.....	11.50	1.007	127.00	11.118	75.00	6.566	21.60	1.891
1864.....	12.50	1.094	135.00	11.818	78.00	6.828	22.00	1.926
1865.....	10.15	.889	148.00	12.957	86.00	7.529	18.00	1.576
1866.....	11.50	1.007	147.00	12.869	84.00	7.354	24.00	2.101
1867.....	8.00	.700	151.00	13.219	83.00	7.266	20.50	1.795
1868.....	7.50	.657	155.00	13.569	85.00	7.441	17.00	1.488
1869.....	7.00	.613	170.00	14.883	86.00	7.529	17.00	1.488
1870.....	7.50	.657	161.00	14.095	82.00	7.179	17.60	1.541
1871.....	9.00	.788	165.00	14.445	84.50	7.397	18.40	1.611
1872.....	10.50	.919	172.00	15.058	94.00	8.229	21.50	1.882
1873.....	10.50	.919	164.00	14.357	100.00	8.754	19.75	1.729
1874.....	10.00	.875	147.00	12.869	82.00	7.179	18.15	1.589
1875.....	9.75	.854	154.00	13.482	82.00	7.179	17.30	1.515
1876.....	9.00	.788	148.00	12.957	80.00	7.004	16.50	1.444
1877.....	8.50	.744	146.00	12.781	72.00	6.303	15.70	1.374
1878.....	8.25	.722	129.00	11.293	56.00	4.902	14.70	1.287
1879.....	7.85	.687	125.00	10.943	49.00	4.290	14.10	1.234
1880.....	8.60	.753	124.00	10.855	48.00	4.202	15.30	1.339
1881.....	7.85	.687	128.00	11.206	48.00	4.202	13.65	1.195
1882.....	8.00	.700	138.00	12.081	45.00	3.939	14.05	1.230
1883.....	7.50	.657	144.00	12.606	46.00	4.027	13.65	1.195
1884.....	7.30	.639	120.00	10.505	43.00	3.764	12.55	1.099
1885.....	6.50	.569	102.00	8.930	37.00	3.239	9.90	.867
1886.....	7.35	.643	104.00	9.105	38.00	3.327	10.25	.897
1887.....	7.45	.652	101.00	8.842	36.00	3.152	9.90	.867
1888.....	7.30	.639	100.00	8.754	33.00	2.889	10.00	.875
1889.....	8.00	.700	104.00	9.105	34.00	2.977	11.25	.985
1890.....	7.50	.657	98.00	8.579	35.00	3.064	10.50	.919
1891.....	6.30	.552	98.00	8.579	37.00	3.239	9.30	.814

Year.	35. Blankets.		36. Carpets.		37. Tapestry.		38. Gloves.	
	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.	Per kilo-gram.	Per pound.
	<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>		<i>Francs.</i>	
1861.....	7.50	\$0.657	13.50	\$1.182	.....	.....	85.00	\$7.441
1862.....	7.25	.635	14.50	1.269	.....	.....	85.00	7.441
1863.....	7.25	.635	15.05	1.318	.....	.....	95.00	8.317
1864.....	7.25	.635	15.05	1.318	.....	.....	90.00	7.879
1865.....	7.70	.674	16.50	1.444	.....	.....	110.00	9.630
1866.....	7.70	.674	16.50	1.444	.....	.....	175.00	15.320
1867.....	7.34	.643	14.50	1.269	.....	.....	180.00	15.758
1868.....	7.00	.613	13.35	1.169	.....	.....	168.00	14.707
1869.....	6.70	.587	12.23	1.071	.....	.....	170.00	14.883
1870.....	6.70	.587	12.85	1.125	.....	.....	170.00	14.883
1871.....	7.95	.696	14.00	1.226	.....	.....	175.00	15.320
1872.....	8.30	.727	15.20	1.331	.....	.....	175.00	15.320
1873.....	7.90	.692	15.20	1.331	.....	.....	175.00	15.320
1874.....	7.80	.683	13.45	1.177	110.00	\$9.630	175.00	15.320
1875.....	7.70	.674	13.45	1.177	110.00	9.630	175.00	15.320
1876.....	8.10	.709	12.05	1.055	90.00	7.879	160.00	14.007
1877.....	7.90	.692	12.05	1.055	90.00	7.879	152.00	13.307
1878.....	7.90	.692	11.45	1.002	85.50	7.485	152.00	13.307
1879.....	7.50	.657	11.45	1.002	85.50	7.485	152.00	13.307
1880.....	7.75	.678	9.89	.866	85.00	7.441	152.00	13.307
1881.....	7.50	.657	8.90	.779	61.00	5.340	152.00	13.307
1882.....	7.70	.674	8.50	.744	61.00	5.340	149.00	13.044
1883.....	7.70	.674	8.50	.744	61.00	5.340	149.00	13.044
1884.....	7.40	.648	8.50	.744	61.00	5.340	149.00	13.044
1885.....	7.30	.639	8.00	.700	60.00	5.253	149.00	13.044
1886.....	7.15	.626	8.00	.700	60.00	5.253	149.00	13.044
1887.....	6.40	.560	7.00	.613	60.00	5.253	142.00	12.431
1888.....	6.35	.556	7.00	.613	60.00	5.253	142.00	12.431
1889.....	6.50	.569	6.65	.582	60.00	5.253	142.00	12.431
1890.....	6.42	.562	6.10	.534	60.00	5.253	142.00	12.431
1891.....	5.60	.490	5.40	.473	60.00	5.253	142.00	12.431

ITALY.

In 1886 the statistical bureau of Italy published an interesting volume upon prices of certain food products in Italian markets.^(a) It comprises the weekly prices in several Italian markets from 1862 to 1885 of wheat, corn, rice, wine, olive oil, and beef. The publication is noteworthy by the wealth of detail in which the facts are presented. We find in the figures a confirmation of the general movements of prices. In some cases a compilation has been made, but in others the number of points given was small and an average was not made. The main facts are reproduced in the following table:

TABLE 81.—*Prices in gold of 6 commodities in Italy from 1862 to 1885.*

Year.	Wheat, price for Italy.		Corn, price for Italy.		Rice, price in Vercelli.		Wine, first quality, price in Florence.		Olive oil, first quality, price in Porto Maurizio.		Beef, first quality, price at Carmagnola, Milan, Bergamo, Padua, and Naples.	
	Per quintal.	Per bushel.	Per quintal.	Per bushel.	Per quintal.	Per pound.	Per hectolitre.	Per quart.	Per hectolitre.	Per quart.	Per kilogram.	Per pound.
	<i>Lire.</i>		<i>Lire.</i>		<i>Lire.</i>		<i>Lire.</i>		<i>Lire.</i>		<i>Lire.</i>	
1862.....	28.52	\$1.498	19.91	\$0.976	29.51	\$0.026	56.06	\$0.102	164.75	\$0.301	1.17	\$0.102
1863.....	26.36	1.385	14.31	.702	27.72	.024	62.09	.113	170.14	.311	1.18	.103
1864.....	25.57	1.343	15.50	.760	29.93	.026	63.15	.115	159.51	.291	1.23	.108
1865.....	24.01	1.261	15.12	.741	29.85	.026	52.72	.096	159.21	.291	1.21	.106
1866.....	25.91	1.361	16.33	.801	30.85	.027	46.16	.084	164.06	.300	1.14	.100
1867.....	29.11	1.529	19.30	.946	32.40	.028	60.48	.110	189.36	.346	1.13	.099
1868.....	29.81	1.566	17.57	.861	30.30	.027	47.67	.087	175.72	.321	1.20	.105
1869.....	24.76	1.301	12.55	.615	28.11	.025	65.41	.119	171.59	.313	1.29	.113
1870.....	24.48	1.286	14.22	.697	26.01	.023	46.15	.084	175.17	.320	1.28	.112
1871.....	29.77	1.564	19.81	.971	29.40	.026	56.53	.103	147.13	.269	1.24	.109
1872.....	30.18	1.586	22.42	1.099	33.63	.029	58.73	.107	155.28	.284	1.35	.118
1873.....	32.69	1.717	19.08	.935	33.91	.030	95.53	.174	140.77	.257	1.65	.144
1874.....	33.46	1.758	24.42	1.197	33.82	.030	83.72	.153	139.83	.255	1.59	.139
1875.....	26.09	1.371	15.01	.736	29.81	.026	49.68	.091	136.94	.250	1.50	.131
1876.....	27.19	1.428	15.16	.743	34.74	.030	46.44	.085	135.34	.247	1.51	.132
1877.....	31.36	1.648	15.89	.975	35.00	.031	53.98	.099	150.58	.275	1.47	.129
1878.....	29.34	1.541	20.48	1.004	32.54	.028	39.16	.072	136.89	.250	1.46	.128
1879.....	28.83	1.515	18.51	.907	32.73	.029	35.13	.064	138.27	.253	1.42	.124
1880.....	30.13	1.583	22.13	1.085	34.30	.030	49.63	.091	136.74	.250	1.45	.127
1881.....	26.69	1.402	18.66	.915	29.60	.026	53.94	.099	153.06	.280	1.57	.137
1882.....	25.56	1.343	20.02	.981	28.70	.025	44.61	.081	111.06	.203	1.49	.136
1883.....	23.74	1.247	17.32	.849	29.26	.026	44.90	.082	130.97	.239	1.55	.136
1884.....	22.29	1.171	14.94	.732	30.66	.027	47.38	.087	130.95	.239	1.57	.137
1885.....	22.01	1.156	14.10	.691	27.83	.024	65.72	.120	138.99	.254	1.55	.136

a Movimento dei prezzi di alcuni generi alimentari dal 1862 al 1885, Rome, 1886.

OTHER COUNTRIES.

A diligent search was made for prices in other countries. For this purpose a correspondence was entered into with the heads of statistical bureaus in Switzerland, Holland, Denmark, Norway, and Sweden. None of them, however, could furnish figures covering any considerable period or number of articles. We are indebted to these gentlemen for some useful references and for some quite interesting isolated statistics, but it was impracticable to present them in such form as to add value to the present report, as the element of continuity was lacking.

COMPARISON WITH UNITED STATES.

We have produced a great variety of prices relating to European countries and shown the most diversified forms of index numbers or relative price combinations. Each of these has in turn been compared with the results of our investigation of prices in the United States. Only one of these series, the prices of Hamburg, can be compared with our prices as respects the scope and number of articles included. As concerns the material itself there are none which include so many articles of everyday consumption as the figures which we have presented. This is the distinctive mark of the work of the committee that it is not confined to raw products and that manufactured articles play such an important part in it. Herein it differs widely from the European statistics which we have considered.

The facts which we have just cited render it impossible to institute international comparisons upon the basis which has been used for the United States. The articles which figure in the Economist list are in a measure common to all. We can compare on this basis the prices of the United States, England, and Hamburg. To them we may add the French prices, though the latter begin in 1861. The comparison is, of course, not absolute, but since in the other countries 1861 differed but little from 1860, the figures are not without value.

In preparing the following table which gives side by side the relative prices for the United States, England, Hamburg, and France, it has not always been possible to maintain the identity of the description. However, in every case we have articles of the same class or type. One peculiarity of the Economist list is the importance ascribed to cotton and its manufactures. Not only are two quotations for raw cotton given, but cotton yarn and cotton cloth figure in the list. In other countries we have been obliged to repeat the cotton quotations. Cotton yarn and cotton cloth have been taken as cotton manufactures, and are replaced by other manufactures of cotton in the list. In the table, however, an exact indication is given of the quality. It should be noted that an average is always composed in our table of an average of relative price series. It is not a series of relative prices based upon an average price. In order to construct this table it was necessary to secure certain additional prices in the United States, printed in Table XXI.

With these preliminary explanations we give Table 82, which as the summary and condensation of our work merits careful attention.

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France.

Year.	1. Coffee.				2. Sugar.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Rio, fair (Table 1).	Jamaica, ordinary to fine ordinary (Table 56)	Coffee (Table 66)	Coffee (Table 80)	Fair re- fining (Table 1).	Average of two grades (Table 56)	Raw sugar (Table 66)	Sugar, brown native (Table 80)
1860.....	100.0	100.0	100.0	-----	100.0	100.0	100.0	-----
1861.....	100.0	103.1	100.7	100.0	74.1	99.9	82.9	100.0
1862.....	156.5	116.3	110.6	114.3	106.9	88.8	82.5	94.2
1863.....	243.5	121.7	115.5	114.3	131.0	83.8	81.8	94.2
1864.....	293.5	115.5	113.6	116.4	165.5	108.2	101.3	94.2
1865.....	378.3	122.5	107.0	114.3	244.8	83.5	84.4	72.5
1866.....	160.9	120.2	99.7	125.0	158.6	93.2	80.9	75.4
1867.....	139.1	113.2	89.2	107.1	134.5	84.0	81.8	73.9
1868.....	113.0	117.0	79.0	103.6	158.3	95.4	87.9	75.4
1869.....	76.1	96.1	81.1	103.6	155.2	93.2	101.7	84.1
1870.....	80.4	101.6	82.3	107.1	144.8	107.2	96.7	84.1
1871.....	91.3	95.3	91.5	114.3	127.6	106.9	135.7	98.6
1872.....	145.7	110.1	119.6	134.3	125.9	108.5	98.5	95.7
1873.....	147.8	130.2	144.2	158.6	125.9	97.1	95.2	89.9
1874.....	217.4	176.7	152.3	162.9	101.7	88.6	93.7	79.7
1875.....	160.9	131.8	147.9	156.4	110.3	88.8	86.1	76.8
1876.....	152.2	139.5	136.3	144.3	110.3	79.2	89.0	81.2
1877.....	173.9	134.9	140.9	147.9	131.0	115.9	104.8	97.1
1878.....	154.3	138.8	122.3	133.6	101.7	65.1	103.3	81.2
1879.....	128.3	109.3	111.5	127.1	87.9	71.6	95.2	79.7
1880.....	134.8	114.7	117.2	120.7	105.2	83.7	95.2	92.8
1881.....	115.2	93.0	101.9	107.9	106.9	74.2	94.1	92.8
1882.....	91.3	76.0	82.1	95.7	103.4	79.8	91.8	92.8
1883.....	69.6	61.2	82.0	99.3	95.7	70.6	86.6	87.0
1884.....	106.5	80.6	81.7	87.1	84.5	68.0	68.2	68.1
1885.....	84.8	71.3	74.6	83.6	65.5	44.8	49.4	68.1
1886.....	71.7	65.1	81.4	107.9	76.7	60.4	44.6	46.4
1887.....	128.3	100.8	126.0	147.9	63.8	45.8	46.8	47.8
1888.....	163.0	126.4	110.7	138.6	70.7	59.4	45.0	53.6
1889.....	147.8	131.0	130.4	158.6	67.2	60.4	62.3	58.0
1890.....	165.2	141.1	140.8	164.3	67.2	43.4	52.0	46.4
1891.....	165.2	131.0	133.8	151.8	62.9	45.8	53.0	52.2

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France—Continued.*

Year.	3. Tea.				4. Tobacco.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Average of six grades (Table XXI).	Congou, middling common to fair good (Table 56)	Tea (Table 66)		Average of several grades (Table 33)	Virginia leaf (Table 56)	Tobacco (Table 66)	Tobacco, leaf (Table 80)
1860.....	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861.....	102.0	93.3	78.4	.....	95.3	88.9	112.9	100.0
1862.....	161.5	78.3	88.6	.....	186.9	125.9	119.6	100.0
1863.....	181.9	78.3	92.9	.....	178.3	214.8	94.3	100.0
1864.....	219.9	76.7	82.9	.....	200.2	214.8	93.9	100.0
1865.....	361.7	66.7	76.6	.....	125.8	.....	78.9	100.0
1866.....	301.5	86.7	73.6	.....	107.7	125.9	72.5	100.0
1867.....	283.8	66.7	90.6	.....	137.9	133.3	80.5	100.0
1868.....	279.3	110.0	89.6	.....	166.5	133.3	84.7	100.0
1869.....	289.3	123.3	81.9	.....	168.0	111.1	97.0	100.0
1870.....	289.3	128.3	73.3	.....	158.1	111.1	93.6	100.0
1871.....	200.3	123.3	72.9	.....	187.5	103.7	96.6	94.4
1872.....	189.0	120.0	78.2	.....	181.0	125.9	113.7	144.4
1873.....	165.5	120.0	74.3	.....	215.5	129.6	102.8	133.3
1874.....	148.0	73.3	73.6	.....	180.2	122.2	102.8	133.3
1875.....	119.7	73.3	75.9	.....	160.8	170.4	98.9	55.6
1876.....	123.0	71.7	74.0	.....	145.7	170.4	102.6	66.7
1877.....	114.2	73.3	63.2	.....	148.9	140.7	93.3	77.8
1878.....	114.2	70.0	59.4	.....	137.4	125.9	93.3	100.0
1879.....	80.8	68.3	66.4	.....	119.3	103.7	88.0	72.2
1880.....	86.9	86.7	62.9	.....	137.8	118.5	94.6	64.4
1881.....	81.6	61.7	57.5	.....	134.4	107.4	90.5	83.3
1882.....	65.3	55.0	57.0	.....	141.1	155.6	80.7	72.2
1883.....	64.4	46.7	55.7	.....	138.2	163.0	77.8	105.6
1884.....	64.4	56.7	56.4	.....	152.6	140.7	85.7	155.6
1885.....	64.4	48.3	54.8	.....	122.3	151.9	87.0	155.6
1886.....	67.8	57.5	54.0	.....	100.6	137.0	88.4	155.6
1887.....	61.4	45.0	47.4	.....	122.5	133.3	79.9	155.6
1888.....	61.4	40.0	54.7	.....	110.8	163.0	79.4	138.9
1889.....	59.9	43.3	54.2	.....	122.2	148.1	86.2	135.6
1890.....	64.4	38.3	52.6	.....	129.8	148.1	90.7	83.3
1891.....	63.9	43.3	56.9	.....	140.0	163.0	84.8	83.3

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France—Continued.

Year.	5. Wheat.				6. Meats.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Average of several grades (Table 33).	English Gazette (Table 56).	Wheat (Table 66).		Average of beef loins, beef ribs, mutton, and lamb (Table 1).	Average of four grades (Table 56).	Average of beef and mutton (Table 66).	Average of beeves, cows, and sheep (Table 80).
1860.....	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861.....	92.3	121.3	106.7	.....	91.1	111.8	105.2	100.0
1862.....	86.7	142.8	100.3	.....	89.5	111.7	118.3	95.0
1863.....	101.2	103.8	86.5	.....	95.9	68.9	117.4	97.6
1864.....	116.4	90.2	72.4	.....	115.1	106.3	119.6	90.9
1865.....	140.5	85.7	75.0	.....	170.8	112.0	112.3	93.7
1866.....	115.9	104.7	88.3	.....	155.8	116.9	126.9	102.9
1867.....	213.4	136.2	123.4	.....	156.2	111.6	131.8	105.2
1868.....	193.0	152.5	118.5	.....	177.9	103.0	130.1	107.2
1869.....	119.1	115.3	90.6	.....	159.9	107.2	133.8	107.9
1870.....	84.7	98.9	87.2	.....	164.4	112.5	137.2	107.9
1871.....	118.2	119.1	104.0	.....	159.9	123.2	147.1	111.0
1872.....	118.5	125.3	108.2	.....	158.8	125.2	166.3	114.0
1873.....	130.3	127.5	112.6	.....	150.2	131.7	151.8	122.7
1874.....	121.5	139.6	101.2	.....	145.1	132.4	157.5	108.6
1875.....	94.6	100.0	89.0	.....	143.1	126.4	161.2	103.0
1876.....	101.3	102.5	92.2	.....	136.7	139.9	177.6	105.5
1877.....	117.2	115.8	105.6	.....	122.1	125.8	177.4	106.3
1878.....	106.6	117.0	93.0	.....	119.6	123.5	174.7	106.8
1879.....	84.2	89.6	92.7	.....	110.7	116.0	164.1	103.8
1880.....	112.3	106.2	94.4	.....	110.5	109.1	171.0	101.7
1881.....	93.3	98.1	96.4	.....	117.5	133.8	163.3	99.0
1882.....	116.4	100.2	88.6	.....	118.0	110.7	173.3	105.3
1883.....	88.8	92.6	81.0	.....	113.6	133.7	180.3	106.2
1884.....	83.5	88.3	72.8	.....	125.2	120.7	169.1	99.7
1885.....	71.1	72.3	66.5	.....	118.6	112.9	155.2	96.9
1886.....	74.0	68.5	65.4	.....	112.6	94.8	157.4	94.7
1887.....	73.6	79.2	65.2	.....	112.5	100.3	147.5	87.8
1888.....	71.0	69.6	67.7	.....	110.5	97.9	148.2	85.0
1889.....	86.0	68.7	62.2	.....	113.4	101.2	152.1	96.4
1890.....	70.8	67.5	64.5	.....	116.1	109.9	161.6	105.5
1891.....	87.7	73.8	81.8	.....	111.1	115.4	159.1	102.7

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France—Continued.

Year.	7. Silk.				8. Flax and hemp.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Silk, raw Italian (Table XXI).	Raw Cosimbuzar (Table 56).	Silk (Table 66).	Average of silk in cocoons and raw, unbleached (Table 80).	Hemp (Table 33).	Average of flax and hemp (Table 56).	Average of flax and hemp (Table 66).	
1860.....	100.0	100.0	100.0	-----	100.0	100.0	100.0	-----
1861.....	100.0	77.1	93.4	100.0	56.0	110.7	101.9	-----
1862.....	72.2	91.4	77.3	106.6	84.0	112.5	104.2	-----
1863.....	75.0	95.7	95.3	98.1	108.0	118.8	118.3	-----
1864.....	69.4	91.4	97.3	116.0	-----	119.8	106.6	-----
1865.....	88.9	102.9	104.9	134.2	188.0	108.5	81.8	-----
1866.....	102.8	131.4	109.7	131.0	240.0	118.2	118.0	-----
1867.....	105.6	120.0	131.0	147.0	-----	102.3	116.5	-----
1868.....	100.0	105.7	136.6	157.7	160.0	109.9	121.7	-----
1869.....	111.1	120.0	131.8	138.5	156.0	114.4	120.7	-----
1870.....	94.4	114.3	120.4	126.6	176.0	103.7	110.8	-----
1871.....	88.9	120.0	120.4	126.2	120.0	103.7	108.1	-----
1872.....	100.0	114.3	132.9	129.0	84.0	101.9	104.6	-----
1873.....	97.2	111.4	132.9	111.3	96.0	106.4	95.4	-----
1874.....	83.3	97.1	100.3	83.4	128.0	105.0	99.9	-----
1875.....	66.7	75.7	88.4	75.6	116.0	89.9	100.6	-----
1876.....	66.1	57.1	104.6	108.9	88.0	96.6	95.0	-----
1877.....	88.9	122.9	111.8	90.3	100.0	95.7	108.9	-----
1878.....	66.7	94.3	90.6	84.0	76.0	112.5	93.2	-----
1879.....	55.6	74.3	76.6	88.5	80.0	82.0	100.0	-----
1880.....	69.4	88.6	89.1	81.7	104.0	85.2	75.2	-----
1881.....	61.7	85.7	84.5	83.0	96.0	64.7	90.7	-----
1882.....	66.7	92.1	80.2	81.2	84.0	70.0	86.6	-----
1883.....	61.1	82.9	88.2	77.1	88.0	63.1	91.7	-----
1884.....	58.3	77.1	82.0	71.6	88.0	73.5	102.0	-----
1885.....	52.8	58.6	76.9	67.5	140.0	75.8	104.7	-----
1886.....	55.6	61.4	71.2	69.6	108.0	73.4	97.6	-----
1887.....	44.4	85.7	69.4	66.9	92.0	75.1	78.4	-----
1888.....	52.8	77.1	76.2	63.2	76.0	41.5	74.0	-----
1889.....	50.0	72.1	96.5	69.4	96.0	42.3	78.2	-----
1890.....	50.0	75.0	60.6	72.1	104.0	64.2	74.4	-----
1891.....	55.6	85.7	60.8	60.0	92.0	35.4	68.1	-----

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France—Continued.

Year.	9. Wool.				10. Indigo.			
	United States. Average of 2 grades (Table 1).	England. Average of 3 grades (Table 56)	Hamburg. Wool. (Table 66)	France. Wool. (Table 80)	^a United States. Average of 4 grades (Table XXI).	England.	Hamburg. Indigo (Table 66)	France.
1860.....	100.0	100.0	100.0	-----	100.0	-----	100.0	-----
1861.....	81.2	110.7	89.7	100.0	89.6	-----	105.6	-----
1862.....	99.7	92.4	96.5	125.0	177.2	-----	115.8	-----
1863.....	157.4	96.7	92.4	140.0	148.4	-----	91.8	-----
1864.....	184.3	100.3	77.3	131.7	143.2	-----	95.4	-----
1865.....	171.3	104.7	82.6	116.7	211.8	-----	92.6	-----
1866.....	133.4	94.9	76.6	103.3	136.8	-----	103.9	-----
1867.....	111.4	95.8	68.7	86.7	138.1	-----	103.8	-----
1868.....	93.1	80.8	72.4	76.7	142.0	-----	111.5	-----
1869.....	96.5	76.8	66.5	70.0	176.6	-----	123.3	-----
1870.....	92.8	71.0	70.4	76.7	162.1	-----	123.9	-----
1871.....	109.8	65.6	75.9	100.0	140.1	-----	115.9	-----
1872.....	154.1	93.7	89.6	106.7	138.6	-----	115.0	-----
1873.....	118.6	105.8	78.8	100.0	114.1	-----	100.8	-----
1874.....	115.0	98.8	69.7	96.7	98.4	-----	105.0	-----
1875.....	107.0	102.2	72.6	93.3	103.7	-----	103.2	-----
1876.....	90.2	92.3	62.6	83.3	103.9	-----	92.6	-----
1877.....	91.4	96.7	63.3	86.7	104.2	-----	93.4	-----
1878.....	80.8	84.8	69.9	86.7	96.5	-----	89.5	-----
1879.....	75.7	75.9	66.4	100.0	89.3	-----	88.7	-----
1880.....	109.1	85.7	65.9	116.7	93.3	-----	92.8	-----
1881.....	97.9	86.3	66.7	100.0	97.4	-----	99.0	-----
1882.....	94.9	82.3	60.3	78.3	100.2	-----	96.9	-----
1883.....	89.7	78.0	56.8	76.7	100.2	-----	92.6	-----
1884.....	89.8	74.9	46.4	73.3	100.2	-----	87.0	-----
1885.....	72.1	71.8	46.8	60.0	103.6	-----	77.5	-----
1886.....	76.3	70.5	43.3	71.7	107.4	-----	79.2	-----
1887.....	78.7	87.2	42.7	66.7	107.4	-----	76.8	-----
1888.....	71.7	76.4	35.4	68.3	90.6	-----	74.4	-----
1889.....	79.8	71.5	38.4	75.0	78.6	-----	85.2	-----
1890.....	77.5	82.7	40.4	75.0	78.6	-----	66.0	-----
1891.....	75.4	79.8	39.5	69.3	78.6	-----	76.0	-----

^a Prices in Table XXI on the gold basis are here reduced to currency.

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France—Continued.

Years.	11. Oils.				12. Timber.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Palm oil (Table XXI).	Average of seal, olive, and palm (Table 56)	Average of palm, olive, and rape seed (Table 66)	Average of linseed, olive, and sesamum (Table 80)	Average of hemlock boards, maple boards, and pine lumber, in the log (Table 1).	Average of 2 grades (Table 56)		
1860.....	100.0	100.0	100.0	-----	100.0	100.0	.....	.....
1861.....	100.0	109.6	98.5	100.0	116.8	102.9	.....	.....
1862.....	100.0	107.5	100.4	104.6	142.4	101.0	.....	.....
1863.....	123.5	114.4	92.4	105.6	173.0	106.0	.....	.....
1864.....	117.6	107.1	95.0	106.7	173.0	104.6	.....	.....
1865.....	235.3	107.0	95.3	100.1	177.8	99.5	.....	.....
1866.....	152.9	115.9	105.7	96.6	168.2	93.9	.....	.....
1867.....	123.5	113.9	101.2	104.4	140.6	97.3	.....	.....
1868.....	126.5	109.9	103.6	90.2	135.8	95.5	.....	.....
1869.....	132.4	100.6	96.6	85.5	135.8	99.0	.....	.....
1870.....	120.6	102.8	103.4	86.4	135.8	100.7	.....	.....
1871.....	97.1	91.7	109.0	94.4	158.5	116.8	.....	.....
1872.....	82.4	97.9	93.0	100.9	153.7	118.4	.....	.....
1873.....	94.1	96.7	84.3	88.8	160.8	129.4	.....	.....
1874.....	85.3	88.8	84.6	81.2	151.3	127.6	.....	.....
1875.....	94.1	91.5	85.7	84.7	146.6	133.9	.....	.....
1876.....	97.1	94.9	89.1	82.4	137.0	130.2	.....	.....
1877.....	91.2	91.7	95.5	90.4	130.6	130.8	.....	.....
1878.....	94.1	95.9	93.1	88.8	133.1	134.3	.....	.....
1879.....	85.3	82.1	83.9	82.8	136.1	116.8	.....	.....
1880.....	73.5	83.6	81.4	84.7	137.3	109.5	.....	.....
1881.....	67.6	76.3	78.4	81.9	137.3	111.3	.....	.....
1882.....	76.5	75.3	79.2	70.4	137.8	113.2	.....	.....
1883.....	73.5	84.4	84.0	70.3	133.7	109.7	.....	.....
1884.....	88.2	88.1	81.1	72.8	133.6	102.8	.....	.....
1885.....	76.5	74.5	72.3	74.3	133.6	104.2	.....	.....
1886.....	58.8	68.9	64.1	67.5	134.2	93.6	.....	.....
1887.....	58.8	61.1	65.8	66.4	136.0	88.5	.....	.....
1888.....	55.9	59.5	62.7	66.6	137.2	88.5	.....	.....
1889.....	61.8	65.6	66.9	65.1	139.5	112.8	.....	.....
1890.....	60.3	66.0	70.2	67.0	140.7	111.6	.....	.....
1891.....	67.6	69.7	71.7	63.5	139.5	105.8	.....	.....

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France.—Continued.

Year.	13. Tallow.				14. Leather.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Tallow, prime, city (Table 1).	St. Petersburg, first Y. C. (Table 56).	Tallow (Table 66).		Average of harness and sole (Table 1).	English butts (Table 56).	Leather (Table 66).	Average of 4 skins, large, sheep, lamb, and kid (Table 80).
1860.....	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861.....	82.9	103.0	96.1	.....	92.2	94.0	84.6	100.0
1862.....	92.7	88.4	86.6	.....	101.5	96.0	92.6	114.5
1863.....	101.2	76.7	76.6	.....	124.5	96.0	93.6	122.7
1864.....	125.6	70.7	73.1	.....	162.3	96.0	99.9	119.0
1865.....	175.6	70.7	77.5	.....	170.7	94.0	98.0	111.3
1866.....	122.0	84.5	76.9	.....	155.4	94.0	110.8	149.4
1867.....	111.0	76.7	86.1	.....	143.7	92.0	80.9	132.8
1868.....	106.1	74.1	83.7	.....	133.1	98.0	67.2	119.9
1869.....	117.1	84.5	83.4	.....	137.5	98.0	76.6	115.0
1870.....	98.8	79.3	82.6	.....	134.6	92.0	77.4	115.0
1871.....	87.8	77.6	82.0	.....	129.4	92.0	72.1	130.0
1872.....	89.0	84.5	80.7	.....	124.4	96.0	83.6	136.4
1873.....	85.4	74.1	78.5	.....	130.6	104.0	76.4	143.6
1874.....	75.6	70.7	77.0	.....	127.8	106.2	89.2	148.5
1875.....	87.2	81.9	81.2	.....	118.0	110.0	69.8	153.1
1876.....	95.1	91.4	82.0	.....	110.3	106.0	73.1	140.1
1877.....	84.1	77.6	80.1	.....	108.9	104.0	68.7	110.5
1878.....	74.4	68.1	76.2	.....	99.3	108.0	59.5	127.0
1879.....	64.6	62.9	66.2	.....	98.6	104.0	60.4	131.7
1880.....	65.9	77.6	64.9	.....	118.7	104.0	68.8	134.4
1881.....	59.1	67.7	68.8	.....	115.4	104.0	71.8	137.4
1882.....	80.5	78.4	81.2	.....	112.9	100.0	72.7	144.2
1883.....	78.0	84.5	83.8	.....	109.5	100.0	82.3	155.6
1884.....	75.6	88.8	70.7	.....	111.3	100.0	84.8	150.9
1885.....	59.1	71.6	65.1	.....	104.3	104.0	75.4	142.0
1886.....	47.6	60.3	53.1	.....	102.6	100.0	76.9	130.8
1887.....	40.2	53.4	52.2	.....	98.6	98.0	75.4	117.6
1888.....	42.7	55.2	49.3	.....	94.8	96.0	70.2	117.9
1889.....	61.0	66.4	58.1	.....	92.0	94.0	77.6	125.5
1890.....	43.3	66.4	52.1	.....	87.7	94.0	81.9	109.1
1891.....	45.1	67.2	52.1	.....	86.4	94.0	78.2	138.8

TABLE 82.—Comparative relative prices in the United States, England, Hamburg and France—Continued.

Year.	15. Copper.				16. Iron.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Copper ingot (Table 1).	Tough cake (Table 56)	Copper (Table 66)	Copper ore (Table 80)	Bar iron (Table 1).	Average of bar iron, 2 grades (Table 56)	Bar iron (Table 66)	Iron ore (Table 80)
1860.....	100.0	100.0	100.0	-----	100.0	100.0	100.0	-----
1861.....	80.9	91.5	94.0	100.0	103.5	102.1	94.5	100.0
1862.....	112.8	96.0	92.6	100.0	119.9	98.2	96.6	100.0
1863.....	131.9	86.6	87.5	95.2	155.0	102.1	100.0	75.0
1864.....	160.6	96.4	95.4	95.2	249.3	118.4	113.5	75.0
1865.....	208.5	79.5	87.3	95.2	181.3	112.1	110.5	75.0
1866.....	174.5	94.6	91.6	95.2	167.0	111.7	107.7	75.0
1867.....	119.1	76.8	82.2	95.2	148.2	98.4	103.7	75.0
1868.....	89.4	67.9	75.3	23.8	145.8	94.6	96.0	50.0
1869.....	100.5	69.6	76.2	23.8	139.0	93.5	95.1	50.0
1870.....	92.6	65.2	74.0	23.8	134.4	99.3	100.9	50.0
1871.....	95.7	63.4	76.2	42.8	133.7	97.4	109.3	50.0
1872.....	117.0	80.4	93.0	47.6	166.2	113.0	141.5	50.0
1873.....	144.7	82.6	93.8	38.1	147.1	155.0	175.6	37.5
1874.....	106.4	82.1	87.1	35.2	115.7	183.4	115.3	30.0
1875.....	98.9	82.1	89.7	38.1	103.6	149.3	121.1	25.0
1876.....	98.9	78.6	88.9	33.3	88.6	132.4	105.2	20.0
1877.....	83.0	72.8	83.8	28.6	77.5	112.4	96.0	17.5
1878.....	74.5	63.4	74.2	25.7	75.3	98.1	89.6	15.0
1879.....	67.6	56.7	66.5	23.8	88.3	83.8	80.8	15.0
1880.....	90.4	63.6	64.5	25.7	102.8	101.6	84.9	15.0
1881.....	81.9	59.2	66.2	23.8	98.8	86.7	82.1	17.5
1882.....	87.2	67.4	70.1	24.8	104.5	96.5	90.2	17.5
1883.....	76.6	62.9	66.7	22.9	85.6	88.6	83.6	15.0
1884.....	63.8	55.6	61.1	19.0	75.0	84.6	77.8	15.0
1885.....	47.3	47.3	54.3	17.1	68.6	92.3	73.1	15.0
1886.....	51.1	39.3	50.6	9.5	73.4	80.8	69.6	15.0
1887.....	51.1	38.2	47.2	9.5	84.0	76.9	71.1	15.0
1888.....	75.0	71.9	65.9	66.7	76.6	82.7	72.2	15.0
1889.....	74.5	70.3	54.0	57.1	73.9	86.5	83.8	15.0
1890.....	61.2	50.2	53.9	114.3	78.2	112.4	87.7	15.0
1891.....	59.6	52.2	56.6	95.2	72.4	98.9	86.0	15.0

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France—Continued.

Year.	17. Lead.				18. Tin.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Lead, pig, average of 2 grades (Table 1).	English pig (Table 56)	Lead (Table 66)	Lead ore (Table 80)	Banca pig (Table XI).	English bars (Table 56)	Tin (Table 66)	Zinc (Table 80)
1860.....	100.0	100.0	100.0	-----	100.0	100.0	100.0	-----
1861.....	96.0	98.3	98.2	100.0	118.8	98.6	88.6	100.0
1862.....	121.8	92.0	93.8	100.0	100.0	87.1	86.2	83.3
1863.....	144.4	98.9	93.5	100.0	131.3	83.5	93.7	83.3
1864.....	208.4	95.5	96.6	100.0	160.9	81.3	80.6	83.3
1865.....	218.7	90.9	92.1	100.0	225.0	71.2	71.7	83.3
1866.....	173.5	97.7	96.5	100.0	124.8	74.8	65.0	83.3
1867.....	166.2	90.9	90.0	62.5	101.0	61.2	67.2	104.2
1868.....	166.5	88.6	95.6	62.5	112.6	69.1	69.7	104.2
1869.....	154.4	86.4	93.4	62.5	131.4	79.9	87.3	104.2
1870.....	130.7	86.4	96.6	62.5	125.1	84.9	93.2	100.0
1871.....	123.8	81.8	92.6	62.5	129.7	97.1	99.9	100.0
1872.....	119.0	86.4	126.6	70.0	144.9	110.1	112.5	133.3
1873.....	130.4	107.0	148.7	75.0	130.3	105.0	107.5	158.3
1874.....	125.5	110.8	106.3	70.0	111.4	87.8	76.9	133.3
1875.....	124.5	109.1	118.4	72.5	91.5	72.7	71.7	141.7
1876.....	119.3	104.0	113.0	70.0	84.6	61.2	66.7	125.0
1877.....	100.7	100.0	104.0	65.0	64.7	58.3	59.0	108.3
1878.....	69.5	86.9	96.5	50.0	55.5	52.2	52.9	79.2
1879.....	71.0	66.5	87.9	45.0	53.1	47.1	53.1	66.7
1880.....	94.2	89.2	87.2	48.8	73.4	67.6	64.5	83.3
1881.....	78.8	69.3	73.4	43.8	76.6	67.6	67.8	66.7
1882.....	87.2	69.9	71.5	41.3	76.6	82.4	72.2	70.8
1883.....	78.2	65.9	67.8	36.3	75.0	70.5	71.6	58.3
1884.....	65.0	55.7	59.1	31.3	66.4	63.7	65.0	54.2
1885.....	64.6	51.1	61.0	32.5	59.4	55.6	60.9	58.3
1886.....	80.1	57.4	61.7	35.0	66.4	69.8	61.3	66.7
1887.....	73.7	58.8	74.7	35.0	59.4	74.6	66.9	66.7
1888.....	80.1	71.9	77.4	37.5	-----	106.5	75.8	83.3
1889.....	66.2	60.2	88.3	37.5	70.3	73.0	65.1	141.7
1890.....	70.2	65.1	115.2	50.0	69.4	74.1	64.1	175.0
1891.....	72.8	60.8	106.9	42.5	62.3	-----	63.3	175.0

a The gold prices in the series are here reduced to currency.

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France—Continued.

Year.	19. Cotton.				20. Cotton yarn.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Upland, middling. (Table 1).	Average of upland, middling, fair; Dhollerah; and Pernambuco (Table 56).	Cotton (Table 66).	Cotton (Table 80).	Cotton manufactures. Average of print cloths, sheetings, shirtings, and calico (Table 1).	Mule No. 40, fair, second quality (Table 56).	Cotton yarn (Table 66).	Cotton batting (Table 80).
1860.....	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861.....	109.1	116.3	125.5	100.0	90.2	102.0	104.5	100.0
1862.....	327.3	184.7	231.2	172.7	143.0	120.4	133.1	153.8
1863.....	613.6	378.3	365.6	218.2	216.8	244.9	216.7	184.6
1864.....	736.4	415.4	426.0	218.2	461.9	277.6	240.0	203.1
1865.....	1,090.9	422.7	228.7	150.0	422.3	257.1	199.7	153.8
1866.....	468.2	348.6	256.1	158.2	291.7	244.9	197.2	153.8
1867.....	322.7	252.3	197.5	111.4	203.1	171.4	175.9	92.3
1868.....	152.3	118.8	152.0	100.9	167.5	93.9	168.9	92.3
1869.....	236.4	178.5	188.0	120.5	166.6	118.4	167.0	110.8
1870.....	230.7	187.9	168.1	104.5	140.6	122.4	157.7	101.5
1871.....	138.6	132.9	144.2	84.1	135.3	110.2	155.5	70.8
1872.....	185.2	140.8	163.3	105.9	142.7	118.4	157.3	70.8
1873.....	186.4	138.4	150.2	96.8	131.5	122.4	148.0	66.2
1874.....	147.7	122.1	144.7	82.3	113.7	108.2	131.6	61.5
1875.....	130.7	111.7	128.4	69.1	101.8	96.9	122.2	61.5
1876.....	120.5	114.1	108.6	65.9	80.6	98.0	109.9	58.5
1877.....	114.8	97.4	108.9	66.4	85.5	93.9	107.1	56.9
1878.....	102.3	95.7	108.7	66.4	73.5	82.7	103.9	56.9
1879.....	86.4	77.2	110.8	69.5	74.2	69.4	102.8	58.5
1880.....	115.9	114.5	119.6	74.5	84.3	87.8	110.4	61.5
1881.....	108.0	109.5	107.7	67.3	79.9	87.8	103.3	58.5
1882.....	108.0	104.0	109.1	68.2	79.5	87.8	108.0	55.4
1883.....	92.6	90.6	98.7	62.7	74.7	79.6	102.1	55.4
1884.....	94.9	92.9	100.5	66.4	67.4	78.6	102.0	44.9
1885.....	100.6	94.8	100.1	62.3	63.5	79.6	96.5	42.2
1886.....	83.5	82.0	94.2	54.5	66.6	66.3	90.3	55.4
1887.....	86.4	80.3	90.2	60.0	63.7	68.4	90.1	55.4
1888.....	96.0	87.2	99.9	59.1	74.0	71.4	91.2	49.2
1889.....	86.4	89.9	100.2	65.9	72.7	74.5	92.8	47.7
1890.....	93.2	93.5	97.5	66.4	68.9	73.5	95.6	47.1
1891.....	84.7	81.5	95.0	52.7	65.9	77.6	95.6	46.2

TABLE 82.—Comparative relative prices in the United States, England, Hamburg, and France—Concluded.

Year.	21. Cotton cloth.				22. Cotton.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Manufac- tures, repeated from No. 20 of this table.	Average of 2 grades (Table 56)	Piece goods, plain (Table 66)	Cotton thread (Table 80)	Upland, middling (Table 33)	Pernam- buc (Table 56)	Cotton (Table 66) repeated from No. 19 of this table.	Cotton (Table 80) repeated from No. 19 of this table.
1860.....	100.0	100.0	100.0	-----	100.0	100.0	100.0	-----
1861.....	90.2	100.8	97.7	100.0	198.8	105.9	125.5	100.0
1862.....	143.0	103.8	118.4	146.3	522.5	152.9	231.2	172.7
1863.....	216.8	177.5	160.8	182.9	781.5	276.5	365.6	218.2
1864.....	461.9	224.9	187.4	189.0	1,119.1	329.4	426.0	218.2
1865.....	422.3	200.7	163.4	144.6	453.2	317.6	228.7	150.0
1866.....	291.7	181.0	164.7	134.1	365.3	258.8	256.1	158.2
1867.....	203.1	141.5	133.7	97.6	198.8	185.3	197.5	111.4
1868.....	167.5	89.6	118.8	146.3	247.4	86.8	152.0	100.9
1869.....	166.6	103.3	122.7	155.6	254.3	135.3	188.0	120.5
1870.....	140.6	105.6	114.9	146.3	156.1	139.7	168.1	104.5
1871.....	135.3	92.9	107.8	144.6	182.7	102.9	144.2	84.1
1872.....	142.7	98.9	113.6	128.8	173.4	116.2	163.3	105.9
1873.....	131.5	99.9	111.6	123.7	169.9	122.1	150.2	96.8
1874.....	113.7	90.8	104.2	119.5	143.4	102.9	144.7	82.3
1875.....	101.8	91.3	101.3	123.2	121.4	92.6	128.4	69.1
1876.....	80.6	87.9	91.6	104.9	101.7	102.9	108.6	65.9
1877.....	85.5	90.4	91.6	96.3	102.9	80.1	108.9	66.4
1878.....	73.5	79.7	89.3	86.8	99.4	79.4	108.7	66.4
1879.....	74.2	69.3	85.8	87.8	96.0	69.1	110.8	69.5
1880.....	84.3	73.9	88.3	86.6	106.4	85.3	119.6	74.5
1881.....	79.9	80.1	85.8	85.9	109.2	83.1	107.7	67.3
1882.....	79.5	79.0	87.7	87.8	105.8	80.1	109.1	68.2
1883.....	74.7	72.5	84.5	84.6	98.3	75.0	98.7	62.7
1884.....	67.4	69.1	79.9	82.2	93.6	72.1	100.5	66.4
1885.....	63.5	66.4	75.4	78.0	93.1	73.5	100.1	62.3
1886.....	66.6	69.0	71.5	73.2	87.9	63.2	94.2	54.5
1887.....	63.7	68.2	73.5	73.2	87.9	62.6	90.2	60.0
1888.....	74.0	69.1	73.5	73.2	96.5	68.4	99.9	59.1
1889.....	72.7	70.1	72.5	73.2	100.6	70.6	100.2	65.9
1890.....	68.9	71.9	74.4	74.4	96.0	80.1	97.5	66.4
1891.....	65.9	70.9	74.8	65.9	80.3	67.6	95.0	52.7

Year.	Total.				
	United States.	United States.	England.	Hamburg.	France.
	Currency, 22 articles.	Gold, 22 articles.	21 articles.	21 articles.	16 articles.
1860.....	100.0	100.0	100.0	100.0	-----
1861.....	98.2	98.2	102.0	99.3	100.0
1862.....	124.9	121.9	109.0	112.7	117.7
1863.....	197.0	135.8	135.9	130.1	126.9
1864.....	268.8	172.9	144.8	137.8	128.6
1865.....	275.6	127.5	135.5	111.9	112.2
1866.....	194.0	138.5	133.0	118.0	115.1
1867.....	154.6	114.9	115.3	111.1	100.4
1868.....	151.5	109.4	99.3	105.5	94.5
1869.....	153.6	113.3	105.0	109.7	97.0
1870.....	140.3	115.7	105.5	106.3	93.6
1871.....	131.4	118.7	100.8	107.7	94.2
1872.....	138.0	126.5	108.8	116.9	104.6
1873.....	136.5	121.1	114.6	114.9	102.5
1874.....	125.3	112.5	110.2	105.6	94.0
1875.....	113.8	101.2	103.9	102.0	87.4
1876.....	105.8	102.7	102.4	98.2	84.7
1877.....	105.5	99.3	101.5	98.4	82.0
1878.....	94.5	93.2	94.1	92.5	78.4
1879.....	86.7	86.7	80.7	111.9	76.4
1880.....	100.5	100.5	92.2	91.1	79.2
1881.....	95.4	95.4	86.1	88.5	76.0
1882.....	96.2	96.2	83.4	88.0	73.4
1883.....	89.1	89.1	84.6	86.5	73.5
1884.....	88.5	88.5	82.5	82.6	72.4
1885.....	83.2	83.2	77.3	77.5	69.7
1886.....	80.4	80.4	73.3	74.8	69.3
1887.....	81.3	81.3	75.3	75.1	70.7
1888.....	81.0	81.0	80.0	76.4	73.5
1889.....	85.1	85.1	79.6	81.2	80.5
1890.....	84.6	84.6	82.3	80.7	83.2
1891.....	83.4	83.4	81.0	80.4	79.2

No attempt can be made here to follow the variation of prices for the individual articles. It should be remembered that we are here concerned with commodities dealt in internationally, and the prices may be considered as quotations from different points of the world's market. The similarity of the quotations is very striking, and it is rare that a divergence in tendency is shown.

If we turn our attention to the summary, we find that the range of variation in the 1891 price is very small—between 79.2 for France and 83.4 for the United States. It will be observed that the prices for the United States are uniformly a few points higher than for the other countries.

The course of prices is well indicated in the following table, giving the maxima and minima in each decade and the entire period for each country. In this table we use the gold prices for the United States:

TABLE 83.—*Fluctuations of prices in different countries.*

Place.	1860-1869.				1870-1879.			
	Maximum.		Minimum.		Maximum.		Minimum.	
	Year.	Price.	Year.	Price.	Year.	Price.	Year.	Price.
United States.....	1864	172.9	1861	98.2	1872	126.5	1879	86.7
England.....	1864	144.8	1868	99.3	1873	114.6	1879	80.7
Hamburg.....	1864	137.8	1861	99.3	1872	116.9	1878	92.5
France.....	1864	128.6	1868	94.5	1872	104.6	1879	76.4

Place.	1880-1891.				1860-1891.			
	Maximum.		Minimum.		Maximum.		Minimum.	
	Year.	Price.	Year.	Price.	Year.	Price.	Year.	Price.
United States.....	1880	100.5	1886	80.4	1864	172.9	1886	80.4
England.....	1880	92.2	1886	73.3	1864	144.8	1886	73.3
Hamburg.....	1880	91.1	1886	74.8	1864	137.8	1886	74.8
France.....	1880 } 1891 }	79.2	1886	69.3	1864	128.6	1886	69.3

From this table it appears that the greatest fluctuation in price is shown in the United States. In the other countries the fluctuation in price during the period has been much the same but somewhat less marked than in the United States. For all countries the maximum relative price during the period has been much the same, and somewhat less than in the United States. For all countries the maximum relative price occurred in 1864 and the minimum in 1886. In each period the movement is quite similar in the different countries. In the period 1880 to 1891 the French price shows the highest figure in each of these extreme years. It is proper to remark that the averages for 1890 and 1891 were much affected by the rise in the price of copper and zinc which was most extreme in France.

WAGES IN EUROPE.

No comparison from the point of view adopted by the committee would be complete without a parallel for wages as well as prices between Europe and the United States. It is greatly to be regretted that the materials for such a comparison were not to be found. Wage statistics so far as they exist in Europe are confined to a single period, and nowhere can a continuous series be obtained. The volume of wage sta-

tistics from 1830 to 1886, published by the Board of Trade of Great Britain, is a conspicuous example. It contains a great many quotations, made independently at different times and different places. The most assiduous efforts to construct from them a continuous table for even the most common occupations met with failure. In continental countries we met with a similar result. A few series of figures for manual labor in Austria from 1830 to 1891 are found in the same publication as the prices. They relate to a single class of labor only. Mention should also be made of efforts made in Italy to collect statistics of wages historically. Unfortunately, their range is small. Elsewhere there are no traces of wage statistics which follow even at a great distance the ideas which guided the collection of statistics in the United States.

Under the circumstances we must abandon any attempt to draw a parallel with the United States in regard to the course of wages.

CONCLUSION.

The report contains some tables which have not been subjected to an analysis. They are drawn from the records of government purchases, and present comparisons with the main table. Since, however, there is considerable difficulty in forming continuous series of these prices, it was not felt that a special analysis would add weight to any of the results obtained.

I take this opportunity of expressing my great indebtedness for their assistance, in completing the collection of European prices, to Herr Heinz, director of the bureau of commercial statistics in Hamburg, through whose courtesy the Hamburg price figures are presented in the report with great thoroughness, Mr. W. F. Willoughby, of the Department of Labor, who secured the French prices, and to Dr. Samuel M. Lindsay, to whose efficient services I owe a very complete and satisfactory statement of prices in England and Germany.

I can not close this work without testifying to my deep appreciation of the assistance rendered by the Department of Labor, under whose supervision the very elaborate and laborious clerical work of the investigation has been carried on. In season and out of season their assistance has been given with a uniform courtesy, for which I am under great obligations.

Respectfully submitted.

ROLAND P. FALKNER.

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures.*

Year.	1. Aloes.		2. Antimony.		3. Oranges.		4. Arrack.		5. Asphalt.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	72.45	\$0.078	94.06	\$0.102	41.00	\$0.044	52.13	\$0.056	10.86	\$0.012
1851.....	72.99	.079	92.26	.100	47.97	.052	47.74	.052	15.36	.017
1852.....	79.63	.086	88.15	.095	31.44	.034	44.64	.048	14.68	.016
1853.....	104.08	.112	86.03	.093	31.51	.034	54.43	.059	15.08	.016
1854.....	129.19	.139	96.03	.104	36.12	.039	60.90	.066	12.76	.014
1855.....	130.83	.141	61.02	.066	33.38	.036	79.81	.086	15.01	.016
1856.....	109.48	.118	138.21	.149	29.32	.032	78.70	.085	16.21	.017
1857.....	91.54	.099	117.15	.126	35.63	.038	77.63	.084	9.69	.010
1858.....	66.60	.072	101.93	.110	31.42	.034	52.36	.057	8.54	.009
1859.....	76.94	.083	104.48	.113	31.46	.034	45.21	.049	10.96	.012
1860.....	76.33	.082			32.91	.036	45.29	.049	11.60	.013
1861.....	88.41	.095	81.95	.088	30.66	.033	56.49	.061	16.10	.017
1862.....	91.65	.099	73.57	.079	32.19	.035	47.61	.051	11.63	.013
1863.....	102.86	.111	67.71	.073	32.21	.035	60.58	.065	12.46	.013
1864.....	102.74	.111	69.44	.075	31.42	.034	64.39	.070	11.26	.012
1865.....	100.33	.108	75.37	.081	29.83	.032	56.21	.061	8.13	.009
1866.....	93.48	.101	72.84	.079	40.93	.044	54.22	.059	11.57	.012
1867.....	67.76	.073	78.09	.084	39.74	.043	60.87	.066	12.07	.013
1868.....	66.51	.072	85.54	.092	39.25	.042	67.49	.073	12.93	.014
1869.....	64.48	.070	97.93	.106	37.06	.040	76.62	.083	17.18	.019
1870.....	73.85	.080	148.91	.161	39.46	.043	69.61	.075	23.46	.025
1871.....	68.06	.073	77.60	.084	40.31	.044	60.22	.065	13.67	.015
1872.....	77.47	.084	154.39	.167	31.56	.034	54.50	.059	18.88	.020
1873.....	81.30	.088	132.24	.143	34.56	.037	70.51	.076	10.06	.011
1874.....	84.18	.091	106.91	.115	36.02	.039	85.92	.093	10.39	.011
1875.....	84.71	.091	111.57	.120	31.93	.034	83.00	.090	8.97	.010
1876.....	89.26	.096	151.50	.164	31.94	.034	85.35	.092	8.23	.009
1877.....	90.88	.098	148.97	.161	29.52	.032	87.66	.095	7.78	.008
1878.....	95.09	.103	124.16	.134	29.17	.031	75.87	.082	7.75	.008
1879.....	90.29	.097	107.61	.116	26.13	.028	57.15	.062	7.61	.008
1880.....	100.62	.109	145.51	.157	28.53	.031	65.79	.071	6.88	.007
1881.....	109.40	.118	135.24	.146	25.45	.027	56.91	.061	6.30	.007
1882.....	110.72	.120	114.77	.124	27.39	.030	96.76	.104	7.00	.008
1883.....	95.23	.103	99.26	.107	25.15	.027	47.73	.052	6.86	.007
1884.....	103.79	.112	82.81	.089	22.08	.024	74.02	.080	6.56	.007
1885.....	70.64	.076	107.13	.116	20.86	.023	63.33	.068	6.73	.007
1886.....	71.74	.077	99.36	.107	18.82	.020	73.69	.080	6.53	.007
1887.....	54.78	.059	83.78	.090	19.08	.021	76.60	.083	6.20	.007
1888.....	61.35	.066	94.66	.102	17.42	.019	68.91	.074	6.23	.007
1889.....	60.51	.065	111.46	.120	15.19	.016	70.30	.076	8.69	.009
1890.....	55.66	.060	136.14	.147	16.49	.018	74.90	.081	8.83	.010
1891.....	55.54	.060	133.14	.144	19.41	.021	72.63	.078	10.61	.011

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	6. Balsam, co- paiba.		7. Balsam, Peru.		8. Cotton.		9. Laurel leaves.		10. Tin plate.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	248.55	\$0.268	1,330.78	\$1.437	133.37	\$0.144	29.91	\$0.032	54.52	\$0.059
1851.....	277.61	.300	1,311.61	1.416	105.07	.113	27.67	.030	62.69	.068
1852.....	327.56	.354	1,213.68	1.310	99.45	.107	25.07	.027	57.49	.062
1853.....	455.66	.492	1,146.00	1.237	108.44	.117	35.91	.039	61.11	.066
1854.....	298.22	.322	1,296.22	1.399	88.64	.096	33.32	.036	63.74	.069
1855.....	250.57	.271	1,174.15	1.268	89.47	.097	35.39	.038	63.57	.069
1856.....	269.72	.291	1,143.65	1.235	107.25	.116	38.28	.041	73.23	.079
1857.....	368.64	.398	1,121.25	1.210	125.54	.136	34.92	.038	76.68	.083
1858.....	402.33	.434	1,165.71	1.258	116.49	.126	26.40	.029	67.12	.072
1859.....	430.71	.465	1,096.50	1.184	109.61	.118	26.69	.029	67.67	.073
1860.....	420.82	.454	1,074.47	1.160	102.29	.110	27.93	.030	63.73	.069
1861.....	348.36	.376	1,097.08	1.184	125.69	.136	34.02	.037	62.97	.068
1862.....	346.80	.374	1,109.61	1.198	231.29	.250	30.77	.033	56.76	.061
1863.....	297.35	.321	1,132.22	1.222	386.70	.417	27.51	.030	57.54	.062
1864.....	352.07	.380	1,119.23	1.208	438.72	.474	30.87	.033	59.98	.065
1865.....	352.69	.381	901.56	.973	223.32	.241	33.83	.037	58.40	.063
1866.....	400.20	.432	1,171.50	1.265	262.63	.284	37.69	.041	62.54	.068
1867.....	358.85	.387	2,554.24	2.757	202.87	.219	37.16	.040	55.10	.059
1868.....	339.44	.366	2,310.45	2.494	146.37	.158	31.46	.034	52.58	.057
1869.....	359.81	.388	2,715.38	2.931	192.62	.208	33.64	.036	54.67	.059
1870.....	379.07	.409	2,123.25	2.292	172.12	.186	33.40	.036	55.29	.060
1871.....	380.96	.411	1,853.57	2.001	147.08	.159	42.94	.046	56.70	.061
1872.....	430.67	.465	1,955.75	2.111	166.70	.180	44.16	.049	79.68	.086
1873.....	497.93	.538	1,932.50	2.086	152.36	.164	44.34	.048	77.36	.084
1874.....	534.50	.577	1,582.16	1.708	148.75	.161	48.03	.052	70.97	.077
1875.....	562.98	.608	1,307.85	1.412	130.89	.141	38.49	.042	64.29	.069
1876.....	426.24	.460	1,037.38	1.120	110.75	.120	35.61	.038	55.64	.060
1877.....	387.43	.418	1,013.24	1.094	110.22	.119	40.89	.044	53.54	.058
1878.....	351.28	.379	992.70	1.072	109.11	.118	33.02	.036	43.17	.047
1879.....	297.42	.321	1,161.85	1.254	112.93	.122	34.68	.037	42.92	.046
1880.....	522.87	.564	1,740.43	1.879	122.76	.133	34.35	.037	46.71	.050
1881.....	472.08	.510	1,978.12	2.136	111.44	.120	35.32	.038	39.77	.043
1882.....	463.53	.500	2,874.95	3.104	112.50	.121	34.80	.038	43.23	.047
1883.....	424.21	.458	2,138.66	2.309	102.46	.111	34.24	.037	41.28	.045
1884.....	367.46	.397	1,612.28	1.741	103.52	.112	35.08	.038	42.65	.046
1885.....	327.18	.353	1,295.94	1.399	102.25	.110	34.40	.037	36.80	.040
1886.....	296.62	.320	1,063.20	1.148	96.61	.104	33.94	.037	38.58	.042
1887.....	345.03	.372	960.42	1.037	92.45	.100	33.94	.037	37.19	.040
1888.....	410.59	.443	833.45	.900	97.19	.105	34.25	.037	39.12	.042
1889.....	429.88	.464	754.44	.814	102.57	.111	34.91	.038	42.40	.046
1890.....	462.05	.499	912.92	.986	99.72	.108	35.40	.038	40.95	.044
1891.....	379.17	.409	1,025.97	1.108	94.38	.102	31.86	.034	38.98	.042

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	11. Sheet iron.		12. Lead.		13. White lead.		14. Borax.		15. Bristles.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	20.33	\$0.022	36.01	\$0.039	45.33	\$0.049	125.19	\$0.135	277.99	\$0.300
1851.....	20.00	.022	51.10	.055	46.38	.050	158.56	.171	429.18	.463
1852.....	19.92	.022	36.09	.039	44.78	.048	170.45	.184	529.90	.572
1853.....	27.72	.030	46.37	.050	50.43	.054	191.75	.207	302.21	.326
1854.....	31.20	.034	48.14	.052	47.77	.052	194.77	.210	443.91	.479
1855.....	26.30	.028	51.98	.056	52.01	.056	187.44	.202	540.40	.583
1856.....	26.54	.029	49.12	.053	57.22	.062	170.63	.184	597.16	.645
1857.....	26.65	.029	49.08	.053	57.27	.062	144.41	.156	546.62	.590
1858.....	23.08	.025	45.64	.049	55.64	.060	131.23	.142	474.27	.512
1859.....	22.35	.024	46.50	.050	54.96	.059	127.51	.138	431.94	.466
1860.....	24.15	.026	44.93	.049	52.87	.057	118.99	.128	667.81	.721
1861.....	25.79	.028	45.74	.049	55.23	.060	112.83	.122	470.00	.507
1862.....	21.31	.023	48.89	.053	54.59	.059	104.32	.113	318.10	.343
1863.....	25.34	.027	43.69	.047	53.17	.057	87.04	.094	494.03	.533
1864.....	25.99	.028	43.03	.046	52.21	.056	92.90	.100	373.24	.403
1865.....	24.39	.026	43.86	.047	51.77	.056	117.86	.127	572.93	.619
1866.....	24.96	.027	43.35	.047	52.42	.057	143.00	.154	489.18	.528
1867.....	23.63	.026	40.68	.044	51.85	.056	158.01	.171	442.36	.478
1868.....	22.63	.024	41.01	.044	51.53	.056	121.73	.131	508.91	.549
1869.....	21.39	.023	40.59	.044	51.43	.056	140.06	.151	514.59	.556
1870.....	23.76	.026	40.28	.043	50.35	.054	133.48	.144	424.39	.458
1871.....	25.53	.028	39.44	.043	51.45	.056	156.89	.169	658.04	.710
1872.....	45.27	.049	56.77	.061	53.95	.058	198.70	.215	682.50	.737
1873.....	46.15	.050	69.31	.075	58.65	.063	214.37	.231	385.38	.416
1874.....	37.31	.040	47.62	.051	59.46	.064	126.63	.137	319.87	.345
1875.....	29.63	.032	51.48	.056	57.13	.062	106.93	.115	340.68	.368
1876.....	28.70	.031	49.30	.053	56.57	.061	87.11	.094	421.44	.455
1877.....	28.48	.031	44.47	.048	54.70	.059	83.22	.090	347.44	.375
1878.....	27.37	.030	45.96	.050	47.48	.051	73.81	.080	386.24	.417
1879.....	23.61	.025	53.66	.058	44.05	.048	70.87	.077	368.74	.398
1880.....	24.99	.027	64.59	.070	43.72	.047	101.66	.110	560.09	.605
1881.....	30.12	.033	32.53	.035	40.74	.044	118.34	.128	451.01	.487
1882.....	32.92	.036	32.56	.035	39.40	.043	108.55	.117	432.75	.467
1883.....	29.68	.032	31.49	.034	37.18	.040	103.24	.111	413.72	.447
1884.....	28.20	.030	30.67	.033	33.54	.036	83.15	.090	413.60	.447
1885.....	25.16	.027	45.94	.050	32.02	.035	76.83	.083	415.25	.448
1886.....	21.20	.023	27.94	.030	32.99	.036	56.98	.062	421.42	.455
1887.....	22.08	.024	39.65	.043	33.38	.036	53.58	.058	457.69	.494
1888.....	23.19	.025	36.58	.039	36.50	.039	59.63	.064	408.50	.441
1889.....	23.07	.025	47.44	.051	38.31	.041	26.81	.029	459.29	.496
1890.....	26.42	.029	59.27	.064	39.94	.043	28.76	.031	398.67	.430
1891.....	28.95	.031	46.45	.050	38.96	.042	28.14	.030	475.40	.513

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	16. Bristle and manila hemp.		17. Camphor, raw.		18. Cinnamon.		19. Cassia, lignea et vera.		20. Peruvian bark.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....			141.91	\$0.153	465.27	\$0.502	194.00	\$0.209	295.57	\$0.319
1851.....			153.99	.166	429.85	.464	199.49	.215	424.60	.458
1852.....			153.09	.165	404.94	.437	201.74	.218	294.98	.318
1853.....			200.36	.216	334.29	.361	228.00	.246	350.10	.378
1854.....			198.36	.214	289.13	.312	217.01	.234	139.64	.151
1855.....			181.08	.195	262.57	.283	196.47	.212	384.52	.415
1856.....	109.34	\$0.118	169.02	.182	279.77	.302	186.01	.201	212.70	.230
1857.....	80.77	.087	185.61	.200	292.23	.315	229.51	.248	395.37	.427
1858.....	64.74	.070	128.01	.138	275.06	.297	193.28	.209	271.30	.293
1859.....	54.02	.058	182.02	.197	227.46	.246	161.95	.175	530.39	.573
1860.....	61.97	.067	297.99	.322	221.00	.239	176.50	.191	367.50	.397
1861.....	90.02	.097	442.79	.478	210.60	.227	172.52	.186	620.83	.670
1862.....	110.05	.119	432.31	.467	227.80	.246	167.39	.181	596.19	.644
1863.....	128.72	.139	258.60	.279	270.17	.292	174.17	.188	472.35	.510
1864.....	98.40	.106	205.08	.221	315.69	.341	168.52	.182	199.24	.215
1865.....	74.78	.081	195.95	.212	350.84	.379	170.99	.185	319.96	.345
1866.....	116.09	.125	247.65	.267	366.30	.395	191.63	.207	221.66	.239
1867.....	128.37	.139	288.62	.312	393.40	.425	203.28	.219	176.32	.190
1868.....	100.95	.109	277.41	.299	447.52	.483	227.86	.246	231.89	.250
1869.....	96.59	.104	215.46	.233	394.43	.426	262.28	.283	195.62	.211
1870.....	92.94	.100	156.21	.169	372.49	.402	235.27	.254	203.60	.220
1871.....	88.09	.095	151.28	.163	414.16	.447	212.65	.230	190.76	.206
1872.....	88.86	.096	170.82	.184	343.48	.371	179.43	.194	220.40	.238
1873.....	84.65	.091	175.85	.190	396.39	.428	155.41	.168	194.54	.210
1874.....	74.69	.081	166.60	.180	314.70	.340	132.83	.143	255.83	.276
1875.....	73.93	.080	151.81	.164	418.44	.452	111.85	.121	294.83	.318
1876.....	66.67	.072	141.02	.152	336.52	.363	102.40	.111	208.69	.225
1877.....	60.98	.066	189.79	.205	369.96	.399	99.25	.107	524.65	.566
1878.....	67.21	.073	170.82	.184	353.48	.382	86.01	.093	580.19	.626
1879.....	55.99	.060	170.32	.184	264.79	.286	82.72	.089	322.90	.349
1880.....	73.91	.080	187.12	.202	172.80	.187	75.57	.082	259.46	.280
1881.....	74.79	.081	180.01	.194	161.87	.175	85.34	.092	206.64	.223
1882.....	70.69	.076	155.00	.167	192.67	.208	74.40	.080	238.65	.258
1883.....	62.56	.068	137.82	.149	208.23	.225	66.93	.072	213.91	.231
1884.....	51.37	.059	122.42	.132	164.63	.178	61.09	.066	111.50	.120
1885.....	46.72	.050	129.61	.140	134.41	.145	53.89	.058	153.74	.166
1886.....	47.78	.052	151.30	.163	110.35	.119	49.35	.053	123.26	.133
1887.....	54.97	.059	136.45	.147	148.27	.160	43.83	.047	160.92	.174
1888.....	58.17	.063	159.96	.173	108.09	.117	37.80	.041	184.83	.200
1889.....	63.46	.069	193.33	.209	108.79	.117	44.19	.048	169.56	.183
1890.....	58.15	.063	256.91	.277	115.55	.125	39.44	.043	169.63	.183
1891.....	50.00	.054	251.13	.271	113.53	.123	39.18	.042	176.20	.190

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	21. Lemons.		22. Cochineal.		23. Cognac.		24. Divi-divi.		25. Wire, iron.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	30.49	\$0.033	953.27	\$1.029	78.22	\$0.084	33.99	\$0.037	31.05	\$0.034
1851.....	32.72	.035	809.42	.874	74.63	.081	23.12	.025	33.56	.036
1852.....	29.71	.032	781.53	.844	70.25	.076	20.03	.022	32.17	.035
1853.....	39.81	.043	981.72	1.060	120.31	.130	27.97	.030	34.56	.037
1854.....	43.58	.047	888.44	.959	182.12	.197	29.25	.032	39.79	.043
1855.....	38.58	.042	871.28	.941	210.35	.227	28.09	.030	35.62	.038
1856.....	29.82	.032	857.70	.926	184.64	.199	21.11	.023	37.34	.040
1857.....	41.35	.045	568.86	.614	217.50	.235	25.80	.028	38.32	.041
1858.....	34.61	.037	814.51	.879	170.62	.184	19.94	.022	38.90	.042
1859.....	37.23	.040	785.09	.848	119.67	.129	26.51	.029	38.89	.042
1860.....	40.23	.043	619.25	.669	192.59	.208	26.45	.029	37.33	.040
1861.....	35.15	.038	616.89	.666	165.31	.178	25.99	.028	34.77	.038
1862.....	32.28	.035	542.57	.586	161.92	.175	27.78	.030	31.90	.034
1863.....	34.89	.038	609.10	.658	136.06	.147	25.31	.027	32.20	.035
1864.....	39.33	.042	736.18	.795	117.57	.127	26.49	.029	38.03	.041
1865.....	37.73	.041	760.18	.821	107.67	.116	21.54	.023	38.14	.041
1866.....	40.11	.043	799.55	.863	88.17	.095	20.85	.023	41.81	.045
1867.....	39.75	.043	776.83	.839	119.19	.129	20.66	.022	33.10	.036
1868.....	38.75	.042	880.80	.951	127.79	.138	19.48	.021	81.03	.087
1869.....	44.34	.048	714.18	.771	120.17	.130	22.44	.024	71.53	.077
1870.....	35.94	.039	630.57	.681	110.84	.120	25.60	.028	60.41	.065
1871.....	33.40	.036	624.22	.674	110.44	.119	27.16	.029	42.24	.046
1872.....	33.34	.036	551.70	.596	114.56	.124	23.44	.025	62.17	.067
1873.....	46.43	.050	568.02	.613	162.60	.176	22.14	.024	67.60	.073
1874.....	47.21	.051	524.65	.566	158.88	.172	24.04	.026	46.17	.050
1875.....	41.53	.045	466.49	.504	131.41	.142	28.30	.031	66.95	.072
1876.....	36.32	.039	507.74	.548	137.07	.148	30.64	.033	63.30	.068
1877.....	30.94	.033	569.12	.614	169.81	.183	29.66	.032	64.03	.069
1878.....	31.67	.034	522.75	.564	160.68	.173	24.87	.027	48.53	.052
1879.....	27.24	.029	575.00	.621	152.99	.165	24.61	.027	69.37	.075
1880.....	31.14	.034	598.50	.646	186.62	.201	27.52	.030	59.27	.064
1881.....	29.22	.032	438.49	.473	181.67	.196	26.93	.029	57.27	.062
1882.....	27.83	.030	353.45	.382	197.44	.213	26.58	.029	59.70	.064
1883.....	28.42	.031	260.09	.281	208.20	.225	24.34	.026	43.37	.047
1884.....	24.30	.026	249.12	.269	215.98	.233	20.86	.023	50.22	.054
1885.....	23.74	.026	318.22	.344	220.61	.238	18.40	.020	36.83	.040
1886.....	27.96	.030	303.45	.328	231.80	.250	18.04	.019	35.73	.039
1887.....	24.88	.027	265.50	.287	243.54	.263	20.92	.023	21.75	.023
1888.....	24.69	.027	238.88	.258	254.49	.275	20.04	.022	21.83	.024
1889.....	21.41	.023	232.36	.251	221.92	.240	20.57	.022	25.59	.028
1890.....	22.83	.025	230.20	.249	226.10	.244	21.09	.023	25.25	.027
1891.....	26.83	.029	228.18	.246	248.12	.268	23.92	.026	26.57	.029

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	26. Iron, pig and cast.		27. Iron, bar, hoop, and plate.		28. Iron, bar, hoop, and plate, English.		29. Iron, bar, hoop, and plate, Swedish.		30. Rails.	
	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	6.35	\$15.355	16.01	\$38.713	15.93	\$38.520	23.20	\$56.099	10.70	\$25.873
1851.....	5.60	13.541	14.84	35.884	14.54	35.159	22.96	55.519	15.45	37.359
1852.....	5.44	13.154	16.06	38.834	15.87	38.375	19.96	48.265	12.98	31.387
1853.....	8.27	19.998	24.78	59.920	22.19	53.657	24.75	59.847	16.46	39.802
1854.....	10.44	25.245	25.03	60.525	25.38	61.371	24.86	60.113	21.86	52.859
1855.....	9.43	22.802	22.08	53.391	21.23	51.336	33.29	80.498	18.71	45.242
1856.....	9.40	22.730	23.31	56.365	22.41	54.189	30.23	73.099	19.66	47.539
1857.....	8.72	21.086	22.90	55.374	22.15	53.560	29.95	72.421	19.29	46.645
1858.....	6.78	16.395	19.78	47.830	18.47	44.662	32.54	78.684	15.78	38.157
1859.....	6.28	15.186	19.51	47.177	18.23	44.082	29.06	70.269	18.20	44.009
1860.....	6.46	15.621	18.81	45.484	17.79	43.018	25.70	62.145	16.28	39.366
1861.....	6.13	14.823	17.80	43.042	17.38	42.026	23.98	57.986	16.22	39.221
1862.....	6.27	15.161	17.94	43.380	17.08	41.301	24.02	58.082	15.49	37.456
1863.....	7.27	17.579	18.98	45.895	18.21	44.033	24.90	60.210	12.96	31.338
1864.....	7.55	18.257	21.50	51.989	21.25	51.384	25.43	61.492	14.95	36.150
1865.....	7.40	17.894	21.18	51.215	19.90	48.120	26.89	65.022	16.17	39.100
1866.....	7.12	17.217	20.88	50.490	20.17	48.773	24.16	58.421	16.54	39.995
1867.....	5.16	12.477	20.06	48.507	18.29	44.227	24.86	60.113	13.76	33.273
1868.....	6.70	16.201	18.34	44.348	16.99	41.083	22.30	53.923	15.24	36.852
1869.....	6.62	16.008	18.50	44.734	17.22	41.639	21.43	51.819	15.97	38.617
1870.....	6.97	16.854	18.99	45.919	17.97	43.453	22.41	54.189	19.75	47.757
1871.....	7.27	17.579	21.30	51.505	20.23	48.918	26.19	63.330	18.01	43.550
1872.....	12.54	30.323	27.74	67.078	27.77	67.150	27.94	67.561	21.22	51.312
1873.....	14.55	35.183	34.43	83.254	33.48	80.957	39.98	96.675	22.78	55.084
1874.....	10.33	24.979	24.62	59.533	27.21	65.796	34.40	83.182	16.25	39.294
1875.....	8.20	19.828	22.95	55.495	22.85	55.253	31.37	75.855	13.25	32.040
1876.....	8.10	19.586	19.43	46.983	20.95	50.659	30.07	72.712	11.24	27.179
1877.....	7.09	17.144	17.82	43.090	18.11	43.791	26.43	63.910	15.98	38.641
1878.....	6.39	15.452	16.14	39.028	16.12	38.979	21.27	51.437	12.99	31.411
1879.....	5.62	13.590	15.39	37.214	14.95	36.150	19.23	46.500	14.18	34.288
1880.....	6.31	15.258	17.10	41.349	16.25	39.294	21.90	52.956	16.94	40.962
1881.....	5.81	14.049	16.67	40.309	14.83	35.860	20.01	48.386	19.42	46.959
1882.....	6.01	14.605	18.56	44.880	15.46	37.384	23.38	56.535	13.98	33.805
1883.....	5.86	14.170	16.58	40.092	14.52	35.111	20.31	49.111	16.46	39.802
1884.....	5.70	13.753	17.03	41.180	13.45	32.523	20.67	49.982	10.98	26.551
1885.....	4.97	12.018	15.68	37.915	11.97	28.944	19.54	47.249	13.23	31.991
1886.....	4.63	11.196	16.75	40.503	12.87	31.121	18.21	44.033	16.68	40.334
1887.....	4.57	11.051	14.96	36.174	11.39	27.542	17.80	43.042	14.35	34.699
1888.....	4.85	11.728	15.18	36.706	13.02	31.483	16.58	40.092	10.78	26.067
1889.....	6.18	14.944	15.86	38.351	14.51	35.086	17.50	42.316	26.53	64.152
1890.....	6.40	15.476	16.95	40.986	16.98	41.059	17.67	42.727	14.15	34.216
1891.....	5.57	13.468	17.43	42.268	15.51	37.504	18.15	43.888	8.96	21.666

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	31. Ivory and elephant teeth.		32. Pease.		33. Extract of logwood.		34. Extract of redwood.		35. Extract of fustic.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	1,042.35	\$1.125	11.77	\$0.813	105.52	\$0.114	124.29	\$0.134	.....	.....
1851.....	.....	.....	16.69	1.153	94.43	.102	.....	.....	147.50	\$0.159
1852.....	967.68	1.045	15.81	1.092	93.22	.101	.....	.....	155.56	.168
1853.....	1,135.29	1.226	35.25	2.435	96.09	.104	410.00	.443	129.00	.139
1854.....	1,204.80	1.301	38.90	2.688	156.61	.169	362.37	.391	146.75	.158
1855.....	1,346.19	1.453	23.47	1.622	114.52	.124	420.00	.453	133.69	.144
1856.....	1,404.86	1.517	26.53	1.833	98.20	.106	328.37	.354	131.02	.141
1857.....	1,662.67	1.795	26.69	1.844	79.71	.086	336.83	.364	117.30	.127
1858.....	1,498.42	1.618	16.71	1.155	67.51	.073	247.42	.267	135.91	.147
1859.....	1,386.57	1.497	17.34	1.198	68.73	.074	237.39	.256	146.87	.159
1860.....	1,378.45	1.488	24.70	1.707	70.51	.076	208.33	.225	137.72	.149
1861.....	1,066.93	1.152	43.47	3.003	77.95	.084	238.97	.258	134.09	.145
1862.....	1,043.39	1.126	28.26	1.953	77.70	.084	206.86	.223	119.04	.129
1863.....	1,229.44	1.327	33.02	2.281	66.27	.072	202.67	.219	130.55	.141
1864.....	1,469.45	1.586	21.36	1.476	62.18	.067	215.92	.233	166.61	.180
1865.....	1,270.12	1.371	32.27	2.230	68.77	.074	233.06	.252	194.05	.209
1866.....	1,411.61	1.524	31.51	2.177	74.63	.081	241.88	.261	170.87	.184
1867.....	1,343.56	1.450	19.76	1.365	75.56	.082	246.89	.267	170.45	.184
1868.....	1,334.59	1.441	30.23	2.089	72.03	.078	247.33	.267	180.51	.195
1869.....	1,338.40	1.445	31.72	2.192	82.61	.089	250.96	.271	162.96	.176
1870.....	1,361.10	1.469	21.12	1.459	69.70	.075	226.36	.244	143.73	.155
1871.....	1,262.72	1.363	19.82	1.369	77.39	.084	226.17	.244	155.16	.168
1872.....	1,513.21	1.634	27.65	1.910	80.75	.087	194.50	.210	144.59	.156
1873.....	1,875.45	2.025	33.16	2.291	69.88	.075	194.88	.210	116.58	.126
1874.....	2,578.28	2.783	20.41	1.410	77.14	.083	193.89	.209	147.74	.159
1875.....	2,038.26	2.200	48.46	3.348	93.16	.101	199.82	.216	137.16	.148
1876.....	1,915.65	2.068	21.29	1.471	91.98	.099	212.57	.229	138.82	.150
1877.....	1,809.99	1.954	19.06	1.317	88.47	.096	177.17	.191	125.91	.136
1878.....	1,863.92	2.012	20.58	1.422	85.33	.092	167.25	.181	92.22	.100
1879.....	2,157.61	2.329	19.60	1.354	85.36	.092	186.22	.201	108.24	.117
1880.....	1,496.00	1.615	18.74	1.295	84.57	.091	192.87	.208	128.58	.139
1881.....	1,613.69	1.742	20.06	1.386	84.00	.091	187.18	.202	126.61	.137
1882.....	1,784.58	1.927	22.66	1.566	81.20	.088	149.91	.162	117.10	.126
1883.....	1,917.94	2.071	16.75	1.157	80.46	.087	131.88	.142	112.39	.121
1884.....	1,918.04	2.071	14.70	1.016	78.65	.085	129.30	.140	99.14	.107
1885.....	1,777.77	1.919	16.40	1.133	74.24	.080	155.12	.167	89.82	.097
1886.....	1,687.07	1.821	13.19	.911	74.80	.081	144.85	.156	95.18	.103
1887.....	1,651.60	1.783	13.69	.946	73.78	.080	133.73	.144	93.84	.101
1888.....	1,689.72	1.824	13.45	.929	87.29	.094	142.80	.154	101.32	.109
1889.....	1,641.24	1.772	14.18	.980	91.63	.099	137.74	.149	105.42	.114
1890.....	1,850.63	1.998	14.15	.978	88.24	.095	124.88	.135	102.91	.111
1891.....	1,887.37	2.038	16.78	1.159	86.54	.093	119.70	.129	99.75	.108

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	36. Extract of yellow oak.		37. Figs.		38. Skins, fawn and reindeer.		39. Skins, calf.		40. Skins, sheep and goat.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	135.36	\$0.146	40.67	\$0.044	326.52	\$0.352	164.61	\$0.178	179.03	\$0.193
1851.....	131.53	.142	37.79	.041	222.44	.240	187.30	.202	189.57	.205
1852.....	114.08	.123	39.01	.042	163.54	.177	115.53	.125	132.88	.143
1853.....	121.16	.131	37.10	.040	170.79	.184	135.98	.147	129.22	.140
1854.....	112.00	.121	45.87	.050	290.22	.313	218.25	.236	186.42	.201
1855.....	109.80	.119	51.42	.056	448.80	.485	127.11	.137	171.31	.185
1856.....	115.01	.124	55.97	.060	368.58	.398	263.62	.285	186.47	.201
1857.....	114.29	.123	51.45	.056	366.45	.396	267.77	.289	190.80	.206
1858.....	85.96	.093	41.10	.044	223.73	.242	184.11	.199	168.21	.182
1859.....	91.64	.099	54.78	.059	269.53	.291	234.37	.253	190.03	.205
1860.....	83.45	.090	47.08	.051	355.78	.384	269.67	.291	210.97	.228
1861.....	79.44	.086	45.75	.049	208.12	.225	249.99	.270	170.47	.184
1862.....	75.82	.082	39.48	.043	217.80	.235	250.51	.270	162.94	.176
1863.....	66.32	.072	43.98	.047	277.21	.299	278.43	.301	179.01	.193
1864.....	68.07	.073	43.59	.047	316.30	.341	289.50	.313	152.47	.165
1865.....	78.80	.085	45.09	.049	291.91	.315	249.10	.269	160.49	.173
1866.....	79.96	.086	44.61	.048	253.13	.273	266.04	.287	155.60	.168
1867.....	85.37	.092	41.37	.045	265.12	.286	247.84	.268	228.98	.247
1868.....	101.29	.109	46.09	.050	303.10	.327	156.17	.169	108.33	.117
1869.....	79.61	.086	45.40	.049	232.32	.251	259.05	.280	191.20	.206
1870.....	61.55	.066	46.26	.050	223.34	.241	267.45	.289	175.28	.189
1871.....	69.38	.075	51.88	.056	278.51	.301	283.43	.306	160.79	.174
1872.....	73.39	.079	41.83	.045	280.94	.303	291.93	.315	239.36	.258
1873.....	67.89	.073	41.85	.045	298.61	.322	298.19	.322	189.19	.204
1874.....	70.81	.076	51.57	.056	304.63	.329	283.41	.306	162.45	.175
1875.....	76.21	.082	54.58	.059	297.11	.321	209.94	.227	145.37	.157
1876.....	74.74	.081	40.99	.044	213.02	.230	160.32	.173	169.71	.183
1877.....	75.55	.082	40.06	.043	238.35	.257	133.78	.144	166.11	.179
1878.....	83.26	.090	46.44	.050	222.60	.240	134.35	.145	154.48	.167
1879.....	81.14	.088	44.07	.048	242.03	.261	153.68	.166	152.23	.164
1880.....	73.65	.080	51.95	.056	304.01	.328	199.09	.215	158.19	.171
1881.....	68.73	.074	53.97	.058	323.49	.349	175.42	.189	159.03	.172
1882.....	66.21	.071	52.58	.057	319.84	.345	177.72	.192	162.94	.176
1883.....	64.81	.070	47.39	.051	290.52	.314	180.36	.195	182.59	.197
1884.....	65.77	.071	42.18	.046	250.64	.271	170.56	.184	191.13	.206
1885.....	60.96	.066	42.49	.046	201.10	.217	160.08	.173	136.12	.147
1886.....	59.07	.064	40.85	.044	193.65	.209	135.85	.147	133.25	.144
1887.....	56.38	.061	29.22	.032	247.13	.267	124.69	.135	126.01	.136
1888.....	57.83	.062	37.82	.041	273.91	.296	125.77	.136	148.24	.160
1889.....	54.82	.059	37.98	.041	300.58	.324	117.46	.127	177.71	.192
1890.....	51.61	.056	36.03	.039	287.89	.311	128.36	.139	187.00	.202
1891.....	48.39	.052	40.59	.044	255.56	.276	135.50	.146	182.11	.197

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	41. Fish, dried.		42. Meat, salted and smoked.		43. Meat extract.		44. Gall nut.		45. Yarn cotton.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	33.40	\$0.036	73.46	\$0.079	.....	.....	187.49	\$0.202	178.36	\$0.193
1851.....	27.98	.030	74.33	.080	.....	.....	155.28	.168	170.74	.184
1852.....	23.25	.025	65.97	.071	.....	.....	193.72	.209	170.69	.184
1853.....	31.18	.034	90.15	.097	.....	.....	173.52	.187	169.63	.183
1854.....	33.72	.036	89.55	.097	.....	.....	130.56	.141	164.57	.178
1855.....	35.94	.039	96.87	.105	.....	.....	152.98	.165	175.82	.190
1856.....	36.88	.040	93.49	.101	.....	.....	147.81	.160	178.25	.192
1857.....	43.57	.047	84.42	.091	.....	.....	182.20	.197	205.75	.222
1858.....	38.84	.042	84.34	.091	.....	.....	165.44	.179	200.50	.216
1859.....	44.72	.048	102.67	.111	.....	.....	168.91	.182	223.48	.241
1860.....	40.27	.043	90.97	.098	.....	.....	182.78	.197	234.06	.253
1861.....	39.77	.043	101.08	.109	.....	.....	136.11	.147	271.86	.293
1862.....	52.01	.056	75.09	.081	.....	.....	145.13	.157	375.09	.405
1863.....	49.06	.053	64.03	.069	.....	.....	185.36	.200	543.72	.587
1864.....	45.63	.049	86.52	.093	.....	.....	183.33	.198	612.87	.662
1865.....	53.89	.058	87.02	.094	.....	.....	173.66	.187	505.62	.546
1866.....	56.56	.061	122.95	.133	.....	.....	184.29	.199	458.30	.495
1867.....	44.17	.048	102.37	.111	2,332.00	\$2.518	179.61	.194	391.09	.422
1868.....	46.06	.050	87.65	.095	2,021.28	2.182	178.22	.192	311.75	.337
1869.....	46.50	.050	88.40	.095	1,571.10	1.696	137.46	.148	375.30	.405
1870.....	48.56	.052	79.90	.086	1,556.79	1.681	137.86	.149	341.09	.368
1871.....	52.83	.057	76.19	.082	1,501.11	1.621	124.05	.134	338.90	.366
1872.....	47.12	.051	75.95	.082	1,500.11	1.669	153.89	.166	347.10	.375
1873.....	51.58	.056	76.04	.082	1,469.98	1.587	118.11	.128	398.43	.430
1874.....	52.32	.056	97.42	.105	1,432.71	1.547	116.63	.126	399.52	.431
1875.....	43.81	.047	95.12	.103	1,025.30	1.107	115.43	.125	421.84	.455
1876.....	56.05	.061	99.91	.108	1,346.19	1.453	125.38	.135	284.98	.308
1877.....	51.90	.056	85.13	.092	1,120.75	1.210	136.37	.147	256.43	.277
1878.....	51.38	.055	68.52	.074	1,326.15	1.432	128.70	.139	278.57	.301
1879.....	45.23	.049	65.70	.071	1,477.29	1.595	133.45	.144	269.65	.291
1880.....	40.15	.043	77.38	.084	1,509.97	1.630	145.13	.157	258.81	.279
1881.....	48.31	.052	84.75	.091	1,531.05	1.653	128.19	.138	251.34	.271
1882.....	57.38	.062	87.40	.094	1,147.86	1.239	126.78	.137	270.77	.292
1883.....	62.90	.068	95.66	.103	1,090.55	1.177	113.87	.123	264.49	.286
1884.....	56.85	.061	79.10	.085	1,222.24	1.319	131.50	.142	286.85	.310
1885.....	52.54	.057	65.74	.071	1,090.61	1.177	114.77	.124	302.42	.326
1886.....	46.81	.051	66.35	.072	1,159.71	1.252	134.75	.145	353.00	.381
1887.....	45.03	.049	64.12	.069	1,416.65	1.529	134.71	.145	350.94	.379
1888.....	48.55	.052	64.69	.070	1,445.07	1.560	119.29	.129	357.44	.386
1889.....	47.72	.052	60.80	.066	1,545.64	1.669	120.92	.131	326.07	.352
1890.....	44.00	.048	57.47	.062	1,532.88	1.655	122.52	.132	273.72	.295
1891.....	49.88	.054	61.50	.066	1,462.58	1.579	115.88	.125	263.43	.284

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	46. Yarn, cocoa.		47. Yarn, jute.		48. Yarn and thread, linen.		49. Yarn, wool and half wool.		50. Intestines.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....					300.63	\$0.325	413.94	\$0.447		
1851.....					287.06	.310	417.73	.451		
1852.....					265.09	.286	414.27	.447		
1853.....	42.19	\$0.046			324.20	.350	567.05	.612		
1854.....					350.27	.378	533.64	.576		
1855.....					331.64	.358	467.34	.505		
1856.....					338.25	.365	529.02	.571		
1857.....	41.29	.045			338.91	.366	547.85	.591		
1858.....	32.58	.035			295.73	.319	445.89	.481	154.37	\$0.167
1859.....	37.82	.041			297.35	.321	513.08	.554	78.70	.085
1860.....	54.10	.058			293.16	.316	583.60	.630	147.83	.160
1861.....	55.00	.059			292.54	.316	562.97	.608	177.34	.191
1862.....	58.79	.063			283.20	.306	597.91	.645	202.63	.219
1863.....	47.56	.051			318.41	.344	672.63	.726	181.67	.196
1864.....	57.35	.062			437.49	.472	786.63	.849	139.96	.151
1865.....	56.10	.061			333.67	.360	750.85	.811	148.95	.161
1866.....	57.45	.062			374.73	.405	749.94	.810	156.84	.169
1867.....	52.11	.056			346.31	.374	656.26	.708	175.96	.190
1868.....	56.62	.061			325.77	.352	610.69	.659	91.56	.099
1869.....	48.51	.052			281.38	.304	552.29	.596	63.31	.068
1870.....	49.29	.053			272.99	.295	482.71	.521	79.19	.085
1871.....	42.70	.046			283.02	.306	650.88	.703	82.14	.089
1872.....	56.32	.061			362.29	.391	696.20	.752	90.22	.097
1873.....	55.91	.060			323.49	.349	681.38	.736	88.79	.096
1874.....	53.25	.057			292.91	.316	733.39	.792	80.98	.087
1875.....	46.55	.050			285.73	.308	640.50	.692	79.00	.085
1876.....	57.60	.062			236.11	.255	635.23	.686	82.85	.089
1877.....	46.39	.050			204.52	.221	558.97	.603	69.43	.075
1878.....	42.51	.046			216.68	.234	517.38	.559	80.40	.087
1879.....	35.49	.038			185.87	.201	478.21	.516	65.80	.071
1880.....	40.03	.043			361.43	.390	512.69	.553	67.06	.072
1881.....	37.70	.041	69.05	\$0.075	348.72	.376	458.10	.495	68.92	.074
1882.....	43.04	.046	69.79	.075	364.09	.393	448.13	.484	57.14	.062
1883.....	47.38	.051	60.65	.065	362.47	.391	467.97	.505	63.12	.068
1884.....	45.37	.049	59.81	.065	358.65	.387	448.51	.484	60.12	.065
1885.....	41.27	.045	58.68	.063	384.14	.415	434.47	.469	58.80	.063
1886.....	29.43	.032	53.04	.057	366.59	.396	399.90	.432	58.84	.064
1887.....	30.31	.033	54.96	.059	378.40	.409	401.07	.433	58.95	.064
1888.....	30.68	.033	68.23	.074	383.92	.414	401.66	.434	54.94	.059
1889.....	35.72	.039	60.90	.066	363.30	.392	399.54	.431	64.70	.070
1890.....	36.05	.039	58.38	.063	361.71	.390	402.76	.435	60.51	.065
1891.....	34.93	.038	50.41	.054	373.83	.404	394.31	.426	60.93	.066

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	51. Yellow metal.		52. Gin.		53. Barley.		54. Window glass.		55. Guano, containing ammonia.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per 2,240 pounds.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	162.10	\$0.175	41.55	\$0.045	8.69	\$0.450	19.51	\$0.021	19.83	\$47.951
1851.....	154.70	.167	48.67	.053	12.45	.645	19.60	.021	20.63	49.885
1852.....	173.74	.188	43.77	.047	13.07	.677	22.23	.024	18.55	44.855
1853.....	206.10	.222	52.12	.056	15.07	.781	24.03	.026	19.98	48.313
1854.....	219.35	.237	57.84	.062	15.43	.800	25.92	.028	22.66	54.794
1855.....	220.21	.238	56.18	.061	19.49	1.010	25.44	.027	22.53	54.479
1856.....	208.77	.225	63.13	.068	20.17	1.045	25.93	.028	23.08	55.809
1857.....	211.46	.228	67.61	.073	16.99	.880	28.47	.031	26.15	63.233
1858.....	184.52	.199	56.97	.062	11.56	.599	29.33	.032	24.42	59.050
1859.....	182.22	.197	57.56	.062	14.17	.734	27.70	.030	21.29	51.481
1860.....	173.01	.187	53.75	.058	16.36	.848	25.40	.027	24.33	58.832
1861.....	176.92	.191	48.83	.053	15.98	.828	24.48	.026	22.57	54.576
1862.....	163.41	.176	46.47	.050	15.88	.823	24.04	.026	25.67	62.072
1863.....	157.89	.170	43.60	.047	10.69	.554	22.30	.024	24.08	58.227
1864.....	167.24	.181	32.83	.035	13.39	.694	21.60	.023	23.43	56.656
1865.....	159.79	.173	23.83	.026	15.00	.777	27.58	.030	24.41	59.025
1866.....	161.35	.174	39.15	.042	19.58	1.015	31.92	.034	23.48	56.777
1867.....	152.13	.164	38.87	.042	19.21	.995	38.84	.042	21.79	52.700
1868.....	133.74	.144	44.95	.049	12.41	.643	34.67	.037	21.04	50.876
1869.....	127.52	.138	42.76	.046	18.51	.959	31.30	.034	24.12	58.324
1870.....	115.91	.125	38.44	.041	13.72	.711	36.37	.039	21.50	51.989
1871.....	134.41	.145	35.35	.038	15.77	.817	31.41	.034	23.43	56.656
1872.....	163.03	.176	37.45	.040	15.41	.799	38.28	.041	24.60	59.485
1873.....	169.46	.183	52.17	.056	17.15	.889	33.87	.037	14.41	34.845
1874.....	150.19	.162	44.11	.048	17.15	.889	42.27	.046	14.08	34.047
1875.....	149.37	.161	33.34	.036	14.75	.764	37.78	.041	12.80	30.951
1876.....	144.90	.156	34.73	.037	14.72	.763	36.37	.039	15.29	36.972
1877.....	130.59	.141	42.06	.045	13.92	.721	31.72	.034	12.65	30.589
1878.....	115.23	.124	35.26	.038	13.64	.707	30.16	.033	14.57	35.231
1879.....	103.16	.111	36.79	.040	13.90	.720	24.32	.026	11.32	27.373
1880.....	104.74	.113	31.14	.034	14.31	.742	21.56	.023	12.12	29.307
1881.....	107.95	.117	39.59	.043	15.26	.791	20.41	.022	11.84	28.630
1882.....	115.74	.125	38.59	.042	16.06	.832	22.23	.024	16.08	38.883
1883.....	111.21	.120	36.21	.039	13.40	.694	22.66	.024	14.08	34.047
1884.....	99.68	.108	38.80	.042	12.36	.640	23.65	.026	11.98	28.969
1885.....	84.39	.091	32.37	.035	10.50	.544	20.65	.022	11.07	26.768
1886.....	71.32	.077	24.72	.027	9.57	.496	18.61	.020	9.88	23.891
1887.....	75.27	.081	25.89	.028	8.77	.454	17.23	.019	9.39	22.706
1888.....	110.44	.119	27.18	.029	9.48	.491	17.21	.019	7.95	19.224
1889.....	81.48	.088	33.86	.037	10.22	.530	19.29	.021	10.13	24.495
1890.....	91.56	.099	39.99	.043	11.07	.574	20.89	.023	10.42	25.196
1891.....	84.45	.091	34.24	.037	12.80	.663	26.41	.029	9.20	22.246

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	56. Gum arabic.		57. Gum benzoin.		58. Gum copal.		59. Gum dammar.		60. India rubber	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	141.18	\$0.152	281.48	\$0.304	161.38	\$0.174	58.12	\$0.063	314.10	\$0.339
1851.....	101.83	.110	256.62	.277	239.23	.258	.....	.....	394.59	.426
1852.....	98.28	.106	306.25	.331	309.60	.334	108.43	.117	275.77	.298
1853.....	111.53	.120	439.57	.475	200.37	.216	159.44	.172	338.44	.365
1854.....	116.94	.126	315.78	.341	163.55	.177	129.52	.140	352.10	.380
1855.....	79.80	.086	270.94	.292	175.65	.190	119.54	.129	266.82	.288
1856.....	74.08	.080	426.20	.460	201.49	.218	125.11	.135	222.64	.240
1857.....	86.22	.093	356.79	.385	154.79	.167	131.84	.142	224.33	.242
1858.....	121.23	.131	237.82	.257	213.57	.231	101.07	.109	222.81	.241
1859.....	76.73	.083	413.57	.446	122.52	.132	100.39	.108	411.72	.444
1860.....	91.81	.099	317.78	.343	152.99	.165	96.08	.104	459.20	.496
1861.....	124.45	.134	374.00	.404	121.95	.132	94.10	.102	290.60	.314
1862.....	80.32	.087	385.00	.416	230.03	.248	100.57	.109	340.17	.367
1863.....	100.77	.109	449.09	.485	128.16	.138	78.75	.085	319.33	.345
1864.....	120.00	.130	343.70	.371	100.12	.108	88.44	.095	274.11	.296
1865.....	142.14	.153	330.67	.357	105.12	.113	91.95	.099	274.75	.297
1866.....	192.46	.208	456.14	.492	118.27	.128	110.96	.120	395.70	.427
1867.....	203.41	.220	368.97	.398	116.54	.121	165.09	.178	335.39	.362
1868.....	221.46	.239	322.35	.348	150.79	.163	143.76	.155	352.65	.381
1869.....	142.50	.154	399.98	.432	148.19	.160	190.19	.205	269.50	.291
1870.....	179.67	.194	337.32	.364	148.47	.160	153.93	.166	347.22	.375
1871.....	160.17	.173	364.51	.394	109.86	.119	128.09	.138	385.02	.416
1872.....	140.84	.152	335.27	.362	109.10	.118	123.60	.133	439.60	.475
1873.....	124.20	.134	343.80	.371	177.47	.192	108.53	.117	406.44	.439
1874.....	128.82	.139	.....	.....	130.67	.141	95.66	.103	332.43	.359
1875.....	111.30	.120	.....	.....	126.64	.137	123.84	.134	318.29	.344
1876.....	135.94	.147	.....	.....	136.40	.147	125.42	.135	323.83	.350
1877.....	150.52	.162	.....	.....	137.44	.148	138.93	.150	296.31	.320
1878.....	136.81	.148	.....	.....	115.60	.125	140.23	.151	309.90	.335
1879.....	138.02	.149	.....	.....	133.97	.145	160.81	.174	361.47	.390
1880.....	136.11	.147	367.91	.397	131.16	.142	180.33	.195	500.00	.540
1881.....	139.51	.151	393.94	.425	130.71	.141	177.59	.192	425.98	.460
1882.....	142.85	.154	365.44	.395	162.11	.175	176.66	.191	456.71	.493
1883.....	125.83	.136	480.92	.519	173.35	.187	168.44	.182	485.64	.524
1884.....	182.02	.197	420.11	.454	142.67	.154	171.14	.185	363.18	.392
1885.....	201.70	.218	474.35	.512	114.76	.124	169.75	.183	368.25	.398
1886.....	256.00	.276	258.87	.279	134.26	.145	176.06	.190	441.70	.477
1887.....	271.10	.293	401.77	.434	123.64	.133	174.12	.188	452.19	.488
1888.....	225.91	.244	312.65	.338	151.45	.164	170.72	.184	382.41	.413
1889.....	208.56	.225	325.97	.352	141.96	.153	165.16	.178	373.43	.403
1890.....	211.98	.229	334.76	.361	143.00	.154	146.37	.158	445.50	.481
1891.....	225.69	.244	250.59	.271	184.22	.199	137.33	.148	376.32	.406

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	61. Guttapercha.		62. Shoes, rubber.		63. Hides, salt.		64. Oats.		65. Hemp.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	153.64	\$0.166	658.03	\$0.710	97.37	\$0.105	15.12	\$0.522	101.19	\$0.109
1851.....	175.45	.189	658.08	.710	95.14	.103	11.09	.383	103.20	.111
1852.....	173.42	.187	514.65	.556	74.69	.081	14.92	.515	113.54	.123
1853.....	250.83	.271	782.24	.844	92.07	.099	13.56	.468	113.16	.122
1854.....	278.91	.301	811.77	.876	81.97	.088	17.42	.602	118.61	.128
1855.....	165.26	.178	750.96	.811	97.18	.105	15.71	.543	85.29	.092
1856.....	175.94	.190	675.13	.729	119.61	.129	16.36	.565	95.77	.103
1857.....	204.53	.221	584.08	.631	170.37	.184	15.15	.523	97.23	.105
1858.....	162.69	.176	378.33	.408	99.41	.107	14.67	.507	67.58	.073
1859.....	304.85	.329	440.72	.476	117.81	.127	14.38	.497	66.88	.072
1860.....	312.00	.337	454.96	.492	125.28	.135	14.69	.507	83.42	.090
1861.....	277.88	.300	443.79	.479	112.78	.122	13.95	.482	83.47	.090
1862.....	297.15	.321	421.34	.455	112.11	.121	13.66	.472	58.04	.063
1863.....	386.91	.418	414.68	.448	102.47	.111	10.85	.375	74.99	.081
1864.....	446.41	.482	368.46	.398	107.52	.116	11.93	.412	62.92	.063
1865.....	328.41	.355	380.63	.411	100.08	.108	15.29	.528	49.80	.054
1866.....	239.49	.259	405.84	.438	97.43	.105	14.83	.512	96.71	.104
1867.....	284.21	.307	394.10	.425	103.04	.111	16.47	.569	93.65	.101
1868.....	258.01	.279	372.01	.402	116.53	.126	20.62	.712	97.51	.105
1869.....	187.18	.202	354.68	.383	103.86	.112	18.24	.630	82.82	.089
1870.....	374.42	.404	373.10	.403	113.52	.123	14.13	.488	78.36	.085
1871.....	296.45	.320	391.02	.422	128.75	.139	14.86	.513	89.45	.097
1872.....	291.22	.314	444.78	.480	150.44	.162	14.85	.513	106.31	.115
1873.....	310.92	.336	455.34	.492	156.70	.169	.....	.....	86.26	.093
1874.....	296.24	.320	442.14	.477	151.19	.163	17.85	.617	82.02	.089
1875.....	223.69	.241	483.03	.521	138.99	.150	17.22	.595	67.37	.073
1876.....	344.62	.372	414.58	.448	116.38	.126	17.67	.610	61.52	.066
1877.....	413.97	.447	433.08	.468	118.20	.128	16.93	.585	69.70	.075
1878.....	412.61	.445	472.91	.511	108.31	.117	13.93	.481	61.21	.066
1879.....	334.71	.361	476.03	.514	107.22	.116	13.74	.475	60.30	.065
1880.....	287.60	.315	612.30	.661	120.86	.130	14.61	.505	62.81	.068
1881.....	313.17	.338	541.61	.585	124.83	.135	15.54	.537	80.24	.087
1882.....	290.89	.314	578.55	.625	123.19	.133	14.12	.488	82.71	.089
1883.....	273.95	.296	558.66	.603	122.99	.133	11.94	.412	76.23	.082
1884.....	289.42	.312	526.08	.568	122.01	.132	12.83	.443	74.40	.080
1885.....	258.85	.279	560.44	.605	120.54	.130	12.40	.428	59.36	.064
1886.....	248.74	.269	505.56	.546	109.24	.118	11.57	.400	60.23	.065
1887.....	236.91	.256	500.82	.541	107.28	.116	10.05	.347	57.96	.063
1888.....	234.22	.253	491.85	.531	93.89	.101	9.74	.336	59.48	.064
1889.....	350.67	.379	449.65	.485	91.14	.098	11.79	.407	67.99	.073
1890.....	353.02	.381	489.33	.528	86.93	.094	12.71	.439	56.13	.061
1891.....	312.12	.337	515.23	.556	86.89	.094	13.41	.463	57.46	.062

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	66. Rosin and turpentine.		67. Herrings.		68. Logwood.		69. Fustic.		70. Redwood.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	8.70	\$0.009	16.24	\$0.018	9.91	\$0.011	12.64	\$0.014	28.64	\$0.031
1851.....	4.32	.005	15.91	.017	9.28	.010	9.25	.010	25.00	.027
1852.....	7.59	.008	21.82	.024	9.71	.010	9.45	.010	24.33	.026
1853.....	10.15	.011	21.43	.023	14.07	.015	16.72	.018	25.45	.027
1854.....	11.21	.012	20.36	.022	15.64	.017	15.66	.017	25.46	.027
1855.....	10.06	.011	20.30	.022	13.69	.015	13.97	.015	26.99	.029
1856.....	9.21	.010	23.29	.025	13.82	.015	13.87	.015	26.57	.029
1857.....	10.80	.012	26.59	.029	12.08	.013	13.39	.014	34.07	.037
1858.....	10.23	.011	21.94	.024	10.05	.011	13.97	.015	22.65	.024
1859.....	10.14	.011	23.72	.026	10.80	.012	12.16	.013	25.02	.027
1860.....	9.79	.011	20.53	.022	12.00	.013	12.23	.013	21.76	.023
1861.....	15.71	.017	23.66	.026	13.32	.014	12.32	.013	19.37	.021
1862.....	41.53	.045	21.90	.024	13.71	.015	10.66	.012	17.04	.018
1863.....	48.02	.052	21.44	.023	12.04	.013	15.02	.016	15.89	.017
1864.....	52.86	.057	21.07	.023	11.47	.012	14.28	.015	16.77	.018
1865.....	26.08	.028	24.07	.026	12.33	.013	13.10	.014	18.91	.020
1866.....	17.90	.019	26.37	.028	12.80	.014	11.86	.013	20.38	.022
1867.....	17.66	.019	24.67	.027	10.61	.011	15.04	.016	21.65	.023
1868.....	12.97	.014	24.82	.027	13.41	.014	14.46	.016	24.79	.027
1869.....	11.08	.012	20.45	.022	15.38	.017	11.84	.013	21.33	.023
1870.....	11.28	.012	20.66	.022	13.03	.014	10.19	.011	16.61	.018
1871.....	17.29	.019	24.05	.026	13.21	.014	12.29	.013	15.25	.016
1872.....	19.33	.021	23.61	.025	14.46	.016	11.35	.012	13.98	.015
1873.....	16.60	.018	25.04	.027	14.34	.015	12.46	.013	17.80	.019
1874.....	13.60	.015	25.52	.028	13.19	.014	14.07	.015	22.04	.024
1875.....	11.49	.012	25.81	.028	16.41	.018	15.40	.017	20.10	.022
1876.....	11.47	.012	26.51	.029	15.60	.017	10.74	.012	16.41	.018
1877.....	11.51	.012	28.62	.031	14.83	.016	10.52	.011	15.69	.017
1878.....	10.30	.011	26.62	.029	13.77	.015	10.90	.012	15.79	.017
1879.....	9.36	.010	30.86	.033	14.53	.016	10.37	.011	16.72	.018
1880.....	10.87	.012	26.10	.028	14.66	.016	11.16	.012	19.65	.021
1881.....	12.34	.013	27.38	.030	13.74	.015	9.98	.011	17.08	.018
1882.....	12.19	.013	28.85	.031	14.13	.015	11.10	.012	15.49	.017
1883.....	10.56	.011	29.49	.032	13.37	.014	10.20	.011	14.92	.016
1884.....	8.62	.009	25.80	.028	13.46	.015	8.82	.010	13.15	.014
1885.....	8.05	.009	23.69	.026	12.60	.014	8.15	.009	11.11	.012
1886.....	7.96	.009	21.32	.023	12.50	.013	8.94	.010	11.86	.013
1887.....	7.53	.008	18.63	.020	12.63	.014	9.38	.010	12.06	.013
1888.....	7.42	.008	20.23	.022	14.83	.016	7.80	.008	12.58	.014
1889.....	9.03	.010	19.67	.021	16.29	.018	8.80	.010	11.48	.012
1890.....	9.62	.010	19.97	.022	15.79	.017	8.97	.010	11.31	.012
1891.....	10.09	.011	23.35	.025	13.91	.015	8.81	.010	13.97	.015

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	71. Cedar wood.		72. Ebony wood.		73. Jacaronda wood.		74. Cork wood.		75. Mahogany wood.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	20.94	\$0.023	24.20	\$0.026	25.29	\$0.027	44.80	\$0.048	23.47	\$0.025
1851.....	19.14	.021	18.55	.020	26.86	.029	56.87	.061	24.66	.027
1852.....	18.34	.020	17.19	.019	22.65	.024	57.56	.062	24.21	.026
1853.....	20.52	.022	18.57	.020	31.04	.034	47.15	.051	22.90	.025
1854.....	28.30	.031	17.19	.019	33.48	.036	52.91	.057	23.42	.025
1855.....	24.32	.026	20.23	.022	26.55	.029	53.61	.058	19.55	.021
1856.....	24.59	.027	18.13	.020	27.96	.030	57.87	.062	24.15	.026
1857.....	21.65	.023	22.27	.024	35.59	.038	51.23	.055	29.04	.031
1858.....	19.17	.021	22.05	.024	26.52	.029	57.15	.062	20.57	.022
1859.....	19.11	.021	27.04	.029	41.30	.045	55.30	.060	23.78	.026
1860.....	27.74	.030	25.76	.028	44.45	.048	54.88	.059	27.25	.029
1861.....	27.94	.030	27.71	.030	48.65	.053	61.85	.067	23.56	.025
1862.....	20.83	.022	20.05	.022	32.22	.030	61.87	.067	19.34	.021
1863.....	24.39	.026	24.07	.026	25.33	.027	60.39	.065	27.88	.030
1864.....	27.40	.030	16.74	.018	26.08	.028	64.51	.070	38.99	.042
1865.....	24.35	.026	13.91	.015	27.31	.029	58.52	.063	25.03	.027
1866.....	22.43	.024	18.73	.020	19.27	.021	67.18	.073	26.03	.028
1867.....	17.73	.019	21.06	.023	25.98	.028	71.67	.077	19.55	.021
1868.....	19.03	.021	18.26	.020	32.78	.035	62.18	.067	15.84	.017
1869.....	23.03	.025	19.98	.022	35.81	.039	52.62	.057	14.87	.016
1870.....	24.31	.026	22.46	.024	42.81	.046	52.48	.057	22.19	.024
1871.....	24.44	.026	18.82	.020	41.33	.045	60.69	.066	20.08	.022
1872.....	20.20	.022	28.07	.030	52.94	.057	61.39	.066	27.02	.029
1873.....	27.56	.030	30.59	.033	42.17	.046	65.19	.070	23.31	.025
1874.....	21.66	.023	21.45	.023	43.53	.047	62.84	.079	22.38	.024
1875.....	17.50	.019	23.11	.025	44.09	.048	68.72	.074	20.25	.022
1876.....	19.39	.021	28.02	.030	18.05	.019	71.63	.077	22.62	.024
1877.....	22.42	.024	21.63	.023	37.76	.041	69.65	.075	21.53	.023
1878.....	24.12	.026	20.74	.022	40.23	.043	73.09	.079	18.89	.020
1879.....	20.29	.022	23.95	.026	39.98	.043	67.86	.073	18.63	.020
1880.....	20.61	.022	21.41	.023	43.04	.046	67.43	.073	20.67	.022
1881.....	17.71	.019	17.64	.019	40.33	.044	69.98	.076	19.86	.021
1882.....	20.36	.022	16.19	.017	40.44	.044	67.31	.073	21.33	.023
1883.....	21.84	.024	22.40	.024	31.52	.034	63.48	.069	22.15	.024
1884.....	17.60	.019	22.74	.025	22.51	.024	63.08	.068	17.16	.019
1885.....	12.39	.013	28.62	.031	23.58	.025	65.84	.071	15.79	.017
1886.....	13.52	.015	26.95	.029	15.82	.017	64.00	.069	16.72	.018
1887.....	15.66	.017	21.26	.023	32.79	.035	64.88	.070	17.38	.019
1888.....	15.21	.016	15.94	.017	30.22	.033	66.10	.071	18.94	.020
1889.....	18.61	.020	18.10	.020	43.38	.047	68.17	.074	21.80	.024
1890.....	14.54	.016	18.16	.020	32.75	.035	67.03	.072	24.41	.026
1891.....	14.17	.015	17.50	.019	29.08	.031	67.82	.073	19.13	.021

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	76. Walnut wood.		77. Honey.		78. Horns, buffalo.		79. Horns, ox and cow.		80. Indigo.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....			47.09	\$0.051	49.46	\$0.053	48.47	\$0.052	976.02	\$1.054
1851.....			43.08	.047	50.38	.054	65.63	.071	952.28	1.028
1852.....			39.41	.043	55.26	.060	45.57	.049	1,021.07	1.102
1853.....			42.96	.046	56.63	.061	59.28	.064	1,089.65	1.176
1854.....			43.10	.047	51.67	.056	52.76	.057	1,062.73	1.147
1855.....			52.92	.057	42.81	.046	53.26	.057	1,103.77	1.192
1856.....	16.71	\$0.018	60.04	.065	47.06	.051	49.92	.054	1,097.57	1.185
1857.....	13.74	.015	75.52	.082	59.14	.064	66.98	.072	1,308.08	1.412
1858.....	15.12	.016	52.10	.056	69.71	.075	53.26	.057	1,375.09	1.484
1859.....	15.64	.017	53.05	.057	72.01	.078	58.12	.063	1,321.67	1.427
1860.....	11.53	.012	58.90	.064	82.22	.089	55.02	.059	1,409.83	1.522
1861.....	11.37	.012	71.46	.077	70.50	.076	44.00	.048	1,488.72	1.607
1862.....	16.03	.017	58.13	.063	65.16	.070	38.31	.041	1,630.94	1.761
1863.....	14.01	.015	54.40	.059	64.39	.070	40.33	.044	1,286.79	1.389
1864.....	15.49	.017	58.21	.063	59.44	.064	40.96	.044	1,354.46	1.462
1865.....	11.99	.013	59.41	.064	68.47	.074	31.52	.034	1,296.94	1.400
1866.....	12.03	.013	57.33	.062	68.80	.074	29.49	.032	1,452.63	1.568
1867.....	13.98	.015	56.29	.061	83.03	.090	41.52	.045	1,484.02	1.602
1868.....	15.47	.017	52.38	.057	70.67	.076	40.33	.044	1,569.17	1.694
1869.....	13.80	.015	62.76	.068	67.07	.072	43.17	.047	1,763.46	1.904
1870.....	14.78	.016	70.85	.076	73.21	.079	45.87	.050	1,690.82	1.825
1871.....	18.36	.020	83.14	.090	69.79	.071	57.52	.062	1,637.48	1.768
1872.....	22.97	.025	75.22	.081	85.97	.093	65.28	.070	1,606.21	1.734
1873.....	19.33	.021	65.08	.070	66.03	.071	83.30	.090	1,440.43	1.555
1874.....	18.00	.019	71.25	.077	75.25	.081	82.69	.089	1,455.08	1.571
1875.....	19.25	.021	77.50	.084	84.12	.091	90.77	.098	1,416.66	1.529
1876.....	26.09	.028	76.56	.083	82.99	.090	79.29	.086	1,278.10	1.380
1877.....	17.49	.019	76.07	.082	97.70	.105	79.06	.085	1,295.89	1.399
1878.....	19.03	.021	68.55	.074	81.97	.088	68.08	.073	1,216.77	1.314
1879.....	17.03	.018	57.06	.062	78.73	.085	57.19	.062	1,246.34	1.345
1880.....	17.64	.019	64.24	.069	122.68	.132	68.85	.074	1,307.32	1.411
1881.....	17.82	.019	58.78	.063	116.65	.126	70.53	.076	1,411.07	1.523
1882.....	18.96	.020	59.54	.064	106.26	.115	75.02	.081	1,388.63	1.499
1883.....	18.39	.020	59.54	.064	86.34	.093	62.03	.067	1,315.24	1.420
1884.....	18.33	.020	56.06	.061	86.77	.094	59.97	.065	1,214.93	1.312
1885.....	16.77	.018	53.53	.058	85.59	.092	50.37	.054	1,077.03	1.163
1886.....	16.29	.018	39.42	.043	89.85	.097	45.39	.049	1,110.10	1.198
1887.....	16.73	.018	37.90	.041	77.84	.084	50.03	.054	1,081.41	1.167
1888.....	17.30	.019	43.35	.047	66.46	.072	52.14	.056	1,058.61	1.143
1889.....	18.24	.020	56.54	.061	79.43	.086	45.03	.049	1,198.64	1.294
1890.....	17.36	.019	54.34	.059	55.44	.060	43.13	.047	927.65	1.001
1891.....	16.68	.018	56.64	.061	61.35	.066	43.29	.047	1,069.18	1.154

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	81. Ginger root.		82. Iodine.		83. Jute.		84. Cheese.		85. Coffee.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	44.03	\$0.048	2,673.00	\$2.886	.....	.....	75.85	\$0.082	90.12	\$0.097
1851.....	39.74	.043	2,224.06	2.401	.....	.....	78.19	.084	80.56	.087
1852.....	39.25	.042	2,240.22	2.418	.....	.....	79.47	.086	80.33	.087
1853.....	44.70	.048	4,140.75	4.470	.....	.....	96.72	.104	91.02	.098
1854.....	42.38	.046	3,126.00	3.375	.....	.....	99.67	.108	93.07	.100
1855.....	42.33	.046	3,015.00	3.255	.....	.....	112.76	.122	90.89	.098
1856.....	50.39	.054	3,049.29	3.292	.....	.....	105.58	.114	94.15	.102
1857.....	46.78	.051	2,919.23	3.151	.....	.....	106.07	.115	105.03	.113
1858.....	39.58	.043	2,391.18	2.581	.....	.....	102.57	.111	92.13	.099
1859.....	37.10	.040	2,395.59	2.586	.....	.....	100.53	.109	106.24	.115
1860.....	48.87	.053	2,114.52	2.283	.....	.....	110.04	.119	122.60	.132
1861.....	96.27	.104	1,567.50	1.692	.....	.....	97.56	.105	119.13	.129
1862.....	120.36	.130	1,347.74	1.455	.....	.....	96.09	.104	138.75	.150
1863.....	133.98	.145	1,222.36	1.320	.....	.....	110.49	.119	141.72	.153
1864.....	100.62	.109	1,785.44	1.927	.....	.....	105.07	.113	140.90	.152
1865.....	65.59	.071	2,095.21	2.262	.....	.....	108.40	.117	132.49	.143
1866.....	86.86	.094	2,667.82	2.880	.....	.....	116.83	.126	125.48	.135
1867.....	68.89	.074	2,878.58	3.108	.....	.....	123.96	.134	111.53	.120
1868.....	76.72	.083	2,807.76	3.031	.....	.....	114.85	.124	96.78	.104
1869.....	62.90	.068	2,916.90	3.149	.....	.....	119.80	.129	100.48	.108
1870.....	65.99	.071	2,901.80	3.133	.....	.....	112.10	.121	103.16	.111
1871.....	77.32	.083	5,195.16	5.608	.....	.....	119.01	.128	111.86	.121
1872.....	81.00	.087	7,723.52	8.338	50.65	\$0.055	137.69	.149	146.27	.158
1873.....	107.64	.116	4,014.18	4.334	49.29	.053	136.75	.148	179.37	.194
1874.....	138.02	.149	2,800.86	3.024	37.90	.041	129.56	.140	185.54	.200
1875.....	105.32	.114	2,240.07	2.418	39.13	.042	130.32	.141	181.13	.196
1876.....	87.87	.095	1,949.53	2.105	34.87	.038	123.79	.134	165.93	.179
1877.....	91.57	.099	2,843.74	3.070	36.23	.039	135.43	.146	172.22	.186
1878.....	74.48	.080	3,511.76	3.791	39.42	.043	121.52	.131	150.15	.162
1879.....	74.66	.081	3,484.15	3.761	33.19	.036	117.87	.127	135.54	.146
1880.....	64.97	.070	2,505.40	2.705	52.12	.056	129.22	.140	142.35	.154
1881.....	76.17	.082	1,821.46	1.966	37.95	.041	134.87	.146	123.05	.133
1882.....	75.09	.081	1,483.93	1.602	37.94	.041	124.05	.134	100.14	.108
1883.....	93.36	.101	1,212.90	1.309	34.09	.037	126.57	.137	99.63	.108
1884.....	89.24	.096	1,055.57	1.140	32.94	.036	120.68	.130	99.13	.107
1885.....	74.79	.081	1,852.78	2.000	34.56	.037	105.58	.114	90.18	.097
1886.....	59.55	.064	2,526.20	2.727	27.21	.029	104.73	.113	99.77	.108
1887.....	59.77	.065	2,933.99	3.167	27.19	.029	106.95	.115	154.87	.167
1888.....	53.65	.058	2,905.48	3.137	28.94	.031	111.82	.121	134.80	.146
1889.....	50.25	.054	2,543.27	2.746	30.93	.033	105.95	.114	159.37	.172
1890.....	54.89	.059	2,671.41	2.884	31.96	.035	113.54	.123	172.57	.186
1891.....	71.52	.077	2,661.31	2.873	29.26	.032	119.07	.129	163.50	.177

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	86. Coffee, Brazil.		87. Coffee, Domingo.		88. Coffee, Java.		89. Coffee, La Guayra.		90. Coffee, Porto Rico.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	89.68	\$0.097	83.99	\$0.091	88.10	\$0.095	96.96	\$0.105	98.13	\$0.106
1851.....	75.26	.081	77.11	.083	89.53	.097	91.96	.099	96.51	.104
1852.....	74.79	.081	75.43	.081	89.52	.097	92.40	.100	99.45	.107
1853.....	86.58	.093	88.33	.095	101.01	.109	102.08	.110	105.55	.114
1854.....	88.14	.095	88.96	.096	109.87	.119	99.01	.107	103.97	.112
1855.....	84.50	.091	89.95	.097	113.83	.123	103.64	.112	113.46	.122
1856.....	87.91	.095	96.50	.104	114.15	.123	106.93	.115	113.59	.123
1857.....	97.65	.105	109.04	.118	111.13	.120	123.88	.134	137.37	.148
1858.....	81.93	.088	95.60	.103	93.40	.101	109.34	.118	112.81	.122
1859.....	103.36	.112	101.76	.110	103.43	.112	120.81	.130	124.98	.135
1860.....	117.89	.127	121.99	.132	131.00	.141	128.57	.139	140.57	.152
1861.....	111.15	.120	121.48	.131	132.31	.143	134.03	.145	137.83	.149
1862.....	126.30	.136	140.68	.152	151.70	.164	144.50	.156	156.98	.169
1863.....	135.26	.146	135.35	.146	143.22	.155	143.99	.155	168.56	.182
1864.....	133.41	.144	129.92	.140	153.09	.165	140.93	.152	108.00	.117
1865.....	116.70	.126	127.64	.138	160.48	.173	144.11	.156	149.73	.162
1866.....	108.69	.117	118.42	.128	160.43	.173	130.13	.140	147.42	.159
1867.....	95.15	.103	122.11	.132	141.22	.152	117.77	.127	132.10	.143
1868.....	85.96	.093	92.08	.099	120.03	.130	106.12	.115	126.30	.136
1869.....	89.68	.097	96.73	.104	135.05	.146	116.76	.126	135.36	.146
1870.....	96.05	.104	91.75	.099	108.63	.117	110.56	.119	118.23	.128
1871.....	111.04	.120	107.87	.116	102.07	.110	112.56	.122	122.43	.132
1872.....	142.05	.153	146.51	.158	152.20	.164	149.34	.161	217.50	.235
1873.....	170.47	.184	200.00	.216	199.71	.216	178.92	.193	188.59	.204
1874.....	172.93	.187	160.06	.173	208.94	.226	188.04	.203	186.71	.202
1875.....	173.13	.187	171.21	.185	207.98	.225	183.58	.198	194.34	.210
1876.....	154.77	.167	143.19	.155	202.32	.218	165.52	.179	184.65	.199
1877.....	163.21	.176	149.88	.162	197.65	.213	178.60	.193	196.31	.212
1878.....	132.19	.143	152.00	.164	195.47	.211	108.07	.117	192.41	.208
1879.....	119.79	.129	100.25	.108	179.52	.194	140.75	.152	173.62	.187
1880.....	134.32	.145	135.96	.147	170.08	.184	136.64	.148	182.32	.197
1881.....	111.53	.120	93.84	.101	155.17	.168	120.39	.130	145.64	.157
1882.....	85.73	.093	75.47	.081	147.38	.159	106.12	.115	159.64	.172
1883.....	87.86	.095	90.28	.097	123.36	.133	111.11	.120	157.62	.170
1884.....	91.43	.099	84.90	.092	128.04	.138	105.02	.113	156.64	.169
1885.....	80.10	.086	79.79	.086	118.17	.128	99.07	.107	124.52	.134
1886.....	92.32	.100	58.87	.064	117.76	.127	103.94	.112	137.54	.148
1887.....	148.90	.161	172.28	.186	154.80	.167	173.60	.187	183.49	.198
1888.....	128.07	.138	113.26	.122	150.53	.163	140.30	.151	159.24	.172
1889.....	153.50	.166	149.71	.162	173.66	.187	167.55	.181	168.91	.182
1890.....	163.61	.177	170.07	.184	183.23	.198	184.61	.199	189.62	.205
1891.....	153.06	.165	162.50	.175	189.40	.204	176.66	.191	190.78	.206

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	91. Cacao.		92. Chromate of potash.		93. Bones.		94. Bone ash.		95. Bone coal and meal.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	64.70	\$0.070	.....	.....	9.50	\$22.972	2.41	\$5.828	16.70	\$40.382
1851.....	56.50	.061	124.66	\$0.134	10.08	24.374	2.47	5.973	19.54	47.249
1852.....	66.15	.071	119.27	.129	9.56	23.117	3.73	9.019	17.92	43.332
1853.....	67.48	.073	153.80	.166	9.85	23.818	3.66	8.850	18.72	45.266
1854.....	67.58	.073	161.28	.174	9.67	23.383	3.56	8.608	19.84	47.975
1855.....	90.89	.098	149.47	.161	11.29	27.300	4.50	10.881	22.71	54.915
1856.....	102.68	.111	162.37	.175	9.32	22.537	5.62	13.590	22.93	55.447
1857.....	165.40	.179	157.83	.170	11.32	27.373	6.82	16.491	28.78	69.592
1858.....	105.72	.114	161.06	.174	9.88	23.891	.....	.....	18.63	45.049
1859.....	106.20	.115	189.10	.204	8.52	20.602	6.46	15.621	22.35	54.044
1860.....	129.75	.140	184.68	.199	8.25	19.949	7.19	17.386	15.49	37.456
1861.....	114.49	.124	157.97	.171	9.07	21.932	6.52	15.766	21.51	52.013
1862.....	120.97	.131	138.43	.149	13.35	32.281	5.88	14.218	22.42	54.213
1863.....	113.82	.123	140.80	.152	9.25	22.367	.....	.....	25.66	62.048
1864.....	128.95	.139	125.15	.135	9.97	24.108	7.12	17.217	26.65	64.442
1865.....	117.19	.127	110.74	.120	9.00	21.763	3.56	8.608	25.41	61.443
1866.....	131.93	.142	104.51	.113	9.62	23.262	4.87	11.776	26.06	63.015
1867.....	117.59	.127	90.10	.097	8.66	20.941	9.13	22.077	22.40	54.165
1868.....	95.96	.104	89.95	.097	8.96	21.666	7.68	18.571	23.45	56.704
1869.....	94.16	.102	95.93	.104	12.21	29.525	12.02	29.065	13.84	33.466
1870.....	95.79	.103	97.86	.106	12.35	29.863	11.89	28.751	23.99	58.010
1871.....	96.08	.104	133.74	.144	12.70	30.710	12.34	29.839	23.92	57.840
1872.....	111.93	.121	158.42	.171	13.08	31.628	12.77	30.879	21.37	51.674
1873.....	96.71	.104	158.42	.171	12.00	29.017	10.21	24.689	19.82	47.926
1874.....	99.49	.107	127.35	.137	14.20	34.337	11.45	27.687	17.12	41.398
1875.....	102.15	.110	109.47	.118	15.93	38.520	12.08	29.210	14.98	36.223
1876.....	131.59	.142	88.55	.096	13.78	33.321	12.71	30.734	13.51	32.668
1877.....	137.96	.149	84.59	.091	12.77	30.879	13.58	32.838	17.17	41.518
1878.....	160.05	.173	78.62	.085	12.14	29.355	12.92	31.242	19.07	46.113
1879.....	198.31	.214	100.57	.109	10.12	24.471	11.00	26.599	17.49	42.292
1880.....	130.88	.141	113.25	.122	11.25	27.203	10.29	24.882	15.67	37.891
1881.....	138.06	.149	112.51	.121	11.38	27.518	11.71	28.316	18.60	44.976
1882.....	141.20	.152	121.46	.131	12.86	31.097	13.47	32.572	15.54	37.577
1883.....	159.23	.172	103.06	.111	13.77	33.297	13.29	32.136	18.28	44.203
1884.....	148.45	.160	69.18	.075	12.41	30.008	11.24	27.179	14.56	35.207
1885.....	159.99	.173	59.97	.065	9.96	24.084	9.86	23.842	13.50	32.644
1886.....	137.42	.148	63.99	.069	8.15	19.707	8.40	20.312	11.48	27.760
1887.....	142.72	.154	67.55	.073	8.56	20.699	8.76	21.182	11.14	26.937
1888.....	136.72	.148	77.28	.083	8.80	21.279	8.63	20.868	11.82	28.582
1889.....	127.44	.138	83.69	.090	8.97	21.690	9.37	22.657	10.97	26.526
1890.....	132.10	.143	78.16	.084	10.59	25.607	10.31	24.930	11.49	27.784
1891.....	143.81	.155	75.38	.081	9.26	22.391	9.32	22.538	11.24	27.179

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	96. Currants.		97. Corks.		98. Madder.		99. Copper.		100. Licorice.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	45.61	\$0.049	188.02	\$0.203	92.44	\$0.100	159.41	\$0.172	139.49	\$0.151
1851.....	32.13	.035	241.50	.261	104.77	.113	169.91	.183	124.82	.135
1852.....	43.94	.047	263.57	.285	89.82	.097	175.43	.189	118.01	.127
1853.....	90.05	.097	247.89	.268	99.43	.107	200.08	.216	120.05	.130
1854.....	26.20	.028	256.39	.277	108.41	.117	224.00	.242	129.78	.140
1855.....	77.79	.084	283.86	.306	109.03	.118	223.21	.241	149.85	.162
1856.....	111.08	.120	205.29	.222	150.34	.162	228.28	.246	148.94	.161
1857.....	88.87	.096	325.79	.352	103.82	.112	224.45	.242	147.94	.160
1858.....	48.62	.052	227.37	.245	114.24	.123	205.72	.222	163.33	.176
1859.....	47.67	.051	273.87	.296	85.80	.093	187.80	.203	167.27	.181
1860.....	41.62	.045	218.67	.236	98.68	.107	203.11	.219	164.54	.178
1861.....	40.06	.043	291.80	.315	105.78	.114	190.65	.206	187.00	.202
1862.....	38.11	.041	217.60	.235	78.70	.085	188.41	.203	178.63	.193
1863.....	38.39	.041	213.39	.230	80.92	.087	177.91	.192	141.52	.153
1864.....	38.33	.041	149.29	.161	77.43	.084	195.81	.211	154.02	.166
1865.....	35.32	.038	163.08	.176	78.24	.084	174.31	.188	148.46	.160
1866.....	37.87	.041	175.43	.189	79.99	.086	187.01	.202	153.22	.165
1867.....	35.18	.038	283.01	.306	75.99	.082	169.40	.183	142.93	.154
1868.....	30.46	.033	318.06	.343	90.98	.098	154.94	.167	131.39	.142
1869.....	32.56	.035	264.38	.285	122.96	.133	156.80	.169	140.29	.151
1870.....	45.33	.049	250.49	.270	111.03	.120	150.84	.163	157.05	.170
1871.....	46.11	.050	237.05	.256	121.34	.131	156.00	.168	157.64	.170
1872.....	45.59	.049	263.50	.284	107.83	.116	190.77	.206	152.94	.165
1873.....	40.62	.044	226.60	.245	93.28	.101	191.45	.207	157.48	.170
1874.....	44.52	.048	226.85	.245	86.10	.093	178.06	.192	159.11	.172
1875.....	44.93	.049	230.34	.249	75.76	.082	183.12	.198	174.24	.188
1876.....	49.79	.054	222.37	.240	71.27	.077	181.43	.196	187.85	.203
1877.....	49.38	.053	227.11	.245	71.20	.077	167.65	.181	175.37	.189
1878.....	34.60	.037	197.03	.213	66.68	.072	151.53	.164	158.62	.171
1879.....	40.95	.044	188.26	.203	54.84	.059	136.15	.147	184.63	.199
1880.....	45.12	.049	196.29	.212	67.45	.073	129.78	.140	169.22	.183
1881.....	42.70	.046	178.90	.193	68.17	.074	134.77	.145	211.23	.228
1882.....	45.92	.050	199.43	.215	73.81	.080	140.94	.152	174.51	.188
1883.....	44.10	.048	184.17	.199	78.34	.085	134.81	.146	184.64	.199
1884.....	35.31	.038	191.19	.206	84.50	.091	123.81	.134	180.81	.195
1885.....	37.47	.040	174.81	.189	78.49	.085	108.24	.117	178.61	.193
1886.....	43.01	.046	174.87	.189	75.71	.082	96.67	.104	178.16	.192
1887.....	44.22	.048	178.61	.193	72.98	.079	96.96	.105	179.04	.193
1888.....	34.56	.037	177.20	.191	66.47	.072	142.77	.154	179.56	.194
1889.....	32.16	.035	184.50	.199	57.37	.062	109.32	.118	164.84	.178
1890.....	36.92	.040	167.59	.181	79.62	.086	110.48	.119	150.72	.163
1891.....	39.94	.043	173.53	.187	76.74	.083	115.39	.125	157.38	.170

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	101. Leather.		102. Leather cloth.		103. Candles, stearine and paraffine.		104. Mace.		105. Nutmegs.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	210.29	\$0.227	.....	.....	209.15	\$0.226	555.68	\$0.600	578.54	\$0.625
1851.....	252.97	.273	.....	.....	198.52	.214	491.10	.530	461.85	.499
1852.....	300.08	.324	.....	.....	179.24	.194	543.01	.586	462.62	.499
1853.....	320.25	.346	.....	.....	215.02	.232	644.29	.696	510.47	.551
1854.....	386.25	.417	.....	.....	224.08	.242	553.33	.597	509.94	.551
1855.....	388.59	.420	.....	.....	246.30	.266	508.27	.549	358.22	.387
1856.....	370.62	.400	.....	.....	214.15	.231	470.24	.508	445.06	.480
1857.....	455.21	.491	384.41	\$0.415	225.92	.244	420.68	.454	393.02	.424
1858.....	363.33	.392	286.65	.309	206.08	.222	333.32	.360	322.10	.348
1859.....	363.64	.393	352.13	.380	211.41	.228	299.27	.323	274.43	.296
1860.....	390.93	.422	320.33	.346	209.12	.226	275.16	.297	313.70	.339
1861.....	350.83	.379	298.59	.322	205.75	.222	250.84	.271	242.04	.261
1862.....	378.98	.409	343.02	.370	187.33	.202	236.77	.256	203.12	.219
1863.....	384.64	.415	384.23	.415	166.15	.179	209.17	.226	171.19	.185
1864.....	417.72	.451	412.50	.445	146.89	.159	240.11	.259	208.55	.225
1865.....	310.64	.335	375.03	.405	144.88	.156	262.91	.284	225.83	.244
1866.....	219.17	.237	374.94	.405	152.77	.165	330.97	.357	271.90	.294
1867.....	263.25	.284	344.82	.372	156.11	.169	375.62	.406	247.59	.267
1868.....	237.47	.256	355.86	.384	156.44	.169	410.92	.444	253.87	.274
1869.....	294.75	.318	301.70	.326	154.26	.167	541.45	.585	295.39	.319
1870.....	300.50	.324	300.64	.325	150.81	.163	675.54	.729	416.90	.450
1871.....	249.33	.269	329.50	.356	150.17	.162	775.81	.838	520.78	.562
1872.....	293.53	.317	280.94	.303	143.89	.155	939.03	1.014	686.12	.741
1873.....	247.73	.267	259.91	.281	147.65	.159	863.35	.932	534.02	.577
1874.....	282.37	.305	232.60	.251	147.16	.163	525.71	.568	692.79	.748
1875.....	254.54	.275	228.02	.246	137.05	.148	626.50	.676	448.82	.485
1876.....	264.69	.286	259.34	.280	136.48	.147	512.63	.553	473.09	.511
1877.....	256.82	.277	236.39	.255	137.31	.148	415.00	.448	401.54	.433
1878.....	230.88	.249	208.01	.225	128.36	.139	363.69	.393	434.93	.470
1879.....	239.31	.258	212.04	.229	119.99	.130	384.33	.415	317.24	.342
1880.....	258.66	.279	226.64	.245	109.08	.118	351.96	.380	349.93	.378
1881.....	262.51	.283	210.09	.227	106.45	.115	393.52	.425	508.82	.549
1882.....	257.34	.278	213.58	.231	107.91	.116	392.60	.424	444.62	.480
1883.....	261.29	.282	196.63	.212	120.79	.130	381.13	.411	446.28	.482
1884.....	240.72	.260	232.17	.251	121.08	.131	331.12	.357	406.86	.439
1885.....	233.39	.252	231.69	.250	112.31	.121	308.46	.333	379.71	.410
1886.....	234.76	.253	246.58	.266	97.46	.105	360.06	.389	363.71	.393
1887.....	210.90	.228	210.38	.227	89.61	.097	472.53	.510	336.92	.364
1888.....	234.96	.254	217.29	.235	85.76	.093	520.09	.561	361.12	.390
1889.....	231.55	.250	239.73	.259	88.17	.095	529.24	.571	472.71	.510
1890.....	207.03	.224	187.69	.203	92.56	.100	539.70	.583	519.59	.561
1891.....	242.48	.262	211.93	.229	90.27	.097	538.90	.582	535.54	.578

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	106. Maize.		107. Almonds.		108. Nails, iron.		109. Cloves.		110. Nuts (hard)	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	19.61	\$1.186	132.65	\$0.143	51.79	\$0.056	139.61	\$0.151	.....	.....
1851.....	14.81	.895	124.24	.134	37.52	.041	127.23	.137	.....	.....
1852.....	19.53	1.181	123.66	.133	39.52	.043	175.20	.189	.....	.....
1853.....	11.99	.725	130.58	.141	38.72	.042	137.42	.148	.....	.....
1854.....	30.58	1.849	128.98	.139	44.28	.048	119.74	.129	.....	.....
1855.....	27.71	1.675	130.72	.141	40.86	.044	109.38	.118	.....	.....
1856.....	15.35	.928	135.38	.146	42.34	.046	95.19	.103	.....	.....
1857.....	12.72	.769	165.71	.179	46.04	.050	86.39	.093	.....	.....
1858.....	24.12	1.458	128.70	.139	45.69	.049	61.80	.067	.....	.....
1859.....	23.96	1.449	111.15	.120	44.43	.048	65.21	.070	.....	.....
1860.....	21.96	1.328	110.61	.119	40.54	.044	74.93	.081	.....	.....
1861.....	25.51	1.542	119.10	.129	38.90	.042	66.52	.072	.....	.....
1862.....	23.89	1.444	107.51	.116	36.86	.040	79.64	.086	.....	.....
1863.....	19.09	1.154	117.48	.127	34.28	.037	72.01	.078	.....	.....
1864.....	23.23	1.404	121.24	.131	36.16	.039	66.59	.072	.....	.....
1865.....	27.96	1.690	131.65	.142	35.93	.039	70.38	.076	.....	.....
1866.....	19.72	1.192	155.67	.168	35.08	.038	64.34	.069	.....	.....
1867.....	21.53	1.302	156.41	.169	33.16	.036	60.10	.065	.....	.....
1868.....	22.71	1.373	149.29	.161	32.50	.035	68.71	.074	.....	.....
1869.....	22.60	1.366	140.52	.152	33.13	.036	63.81	.069	.....	.....
1870.....	20.66	1.249	146.50	.158	34.60	.037	62.87	.068	.....	.....
1871.....	17.91	1.083	134.10	.145	32.45	.035	60.94	.066	.....	.....
1872.....	16.05	.970	117.79	.127	40.30	.044	109.38	.118	35.05	\$0.038
1873.....	14.69	.888	113.39	.122	51.57	.056	158.20	.171	36.26	.039
1874.....	16.35	.988	123.99	.134	42.97	.046	331.56	.368	32.40	.035
1875.....	16.00	.967	136.11	.147	39.72	.043	329.15	.355	49.46	.053
1876.....	13.28	.803	134.91	.146	36.99	.040	279.31	.302	37.07	.040
1877.....	13.37	.808	151.76	.164	35.29	.038	267.94	.289	45.37	.049
1878.....	12.33	.745	167.54	.181	29.84	.032	288.73	.312	54.75	.059
1879.....	11.24	.680	182.05	.197	33.51	.036	310.66	.335	39.70	.043
1880.....	11.88	.718	163.38	.176	40.14	.043	272.58	.294	31.62	.034
1881.....	12.81	.774	148.50	.160	40.63	.044	233.97	.253	29.79	.032
1882.....	14.65	.886	137.58	.149	43.73	.047	183.19	.198	27.08	.029
1883.....	13.51	.817	160.07	.173	43.07	.046	131.17	.142	35.03	.038
1884.....	11.96	.723	142.77	.154	36.15	.039	106.54	.115	34.67	.037
1885.....	10.68	.646	130.75	.141	33.24	.036	104.35	.113	35.97	.039
1886.....	9.52	.575	130.73	.141	33.38	.036	159.04	.172	36.98	.040
1887.....	9.62	.582	134.89	.146	34.63	.037	205.79	.222	33.63	.036
1888.....	11.32	.684	130.30	.141	30.52	.033	164.44	.178	25.90	.028
1889.....	10.46	.632	147.26	.159	34.31	.037	131.12	.142	19.71	.021
1890.....	9.10	.550	167.81	.181	35.30	.038	97.51	.105	17.34	.019
1891.....	12.84	.776	172.81	.187	39.18	.042	62.84	.068	18.03	.019

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	111. Walnuts and hazel-nuts.		112. Oil, castor.		113. Oil, cotton-seed.		114. Oil, cocoa-nut.		115. Oil, lin-seed.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	40.31	\$0.044	148.37	\$0.160	.....	.....	71.39	\$0.077	66.38	\$0.072
1851.....	35.32	.038	91.99	.099	.....	.....	72.55	.078	64.83	.070
1852.....	57.05	.062	74.30	.080	.....	.....	74.52	.080	59.59	.064
1853.....	39.45	.043	83.33	.090	.....	.....	90.53	.098	60.43	.065
1854.....	50.19	.054	102.56	.111	.....	.....	103.73	.112	75.05	.081
1855.....	39.95	.043	110.22	.119	.....	.....	90.28	.097	78.58	.085
1856.....	52.14	.056	116.06	.125	.....	.....	85.73	.093	78.33	.085
1857.....	56.09	.061	112.02½	.121	.....	.....	99.43	.107	81.51	.088
1858.....	48.15	.052	121.67	.131	.....	.....	79.66	.066	64.10	.069
1859.....	46.50	.050	115.45	.125	.....	.....	86.50	.093	59.66	.064
1860.....	33.94	.037	112.50	.121	.....	.....	93.80	.101	59.25	.064
1861.....	43.34	.047	113.75	.123	.....	.....	99.06	.107	65.03	.070
1862.....	49.31	.053	124.16	.134	.....	.....	112.86	.122	79.04	.085
1863.....	42.46	.046	105.83	.114	.....	.....	96.58	.104	86.12	.093
1864.....	48.92	.053	105.74	.114	.....	.....	85.11	.092	76.24	.082
1865.....	41.35	.045	126.39	.136	72.95	\$0.079	87.09	.094	69.86	.075
1866.....	44.00	.048	126.65	.137	78.31	.085	103.42	.112	79.60	.086
1867.....	44.45	.048	120.21	.130	73.07	.079	99.91	.108	76.84	.083
1868.....	44.70	.048	128.51	.139	68.01	.073	107.15	.116	69.00	.074
1869.....	43.54	.047	118.86	.128	.....	.....	87.20	.094	59.01	.064
1870.....	48.51	.052	102.23	.110	71.35	.077	84.48	.091	66.48	.072
1871.....	52.35	.057	104.38	.113	72.66	.078	87.01	.094	69.97	.076
1872.....	54.25	.059	119.30	.129	67.67	.073	82.95	.090	72.15	.078
1873.....	59.87	.065	120.51	.130	61.27	.066	73.44	.079	74.66	.081
1874.....	49.84	.054	130.84	.141	54.00	.058	76.19	.082	63.15	.068
1875.....	40.11	.043	110.70	.120	54.85	.059	80.82	.087	53.68	.058
1876.....	43.55	.047	94.13	.102	60.39	.065	86.09	.093	55.94	.060
1877.....	47.77	.052	101.19	.109	77.44	.084	84.93	.092	61.40	.066
1878.....	43.73	.047	109.89	.119	65.25	.070	99.10	.107	59.03	.064
1879.....	52.10	.056	103.42	.112	57.93	.063	90.09	.097	57.71	.062
1880.....	46.16	.050	110.01	.119	56.24	.061	77.14	.083	59.85	.065
1881.....	48.17	.052	98.97	.107	57.10	.062	66.51	.072	57.98	.063
1882.....	51.39	.056	98.87	.107	60.21	.065	72.92	.079	54.71	.059
1883.....	47.28	.051	90.33	.098	59.29	.064	75.74	.082	49.86	.054
1884.....	44.93	.049	74.26	.080	55.71	.060	73.42	.079	45.86	.050
1885.....	43.61	.047	78.57	.085	41.02	.044	62.19	.067	49.34	.053
1886.....	41.25	.045	75.35	.081	40.45	.044	61.28	.066	44.47	.048
1887.....	40.58	.044	68.41	.074	43.21	.047	59.06	.064	42.78	.046
1888.....	41.27	.045	62.82	.068	53.12	.057	53.92	.058	39.68	.043
1889.....	45.95	.050	66.64	.072	58.50	.063	54.76	.059	44.00	.048
1890.....	46.17	.050	75.68	.082	49.36	.053	58.05	.063	48.85	.053
1891.....	45.99	.050	77.40	.084	48.31	.052	61.27	.066	48.40	.052

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	116. Oil, olive.		117. Oil, palm.		118. Oil, turpentine.		119. Oil cake.		120. Orchilla and orchilla extract.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	98.75	\$0.107	62.06	\$0.067	53.32	\$0.058	-----	-----	112.31	\$0.121
1851.....	83.99	.091	55.48	.060	57.38	.062	10.31	\$0.011	77.10	.083
1852.....	102.31	.110	57.24	.062	77.07	.083	10.36	.011	62.72	.068
1853.....	137.75	.149	70.74	.076	98.42	.106	14.60	.016	64.77	.070
1854.....	118.76	.128	93.60	.101	82.59	.089	16.50	.018	53.48	.058
1855.....	111.49	.120	83.59	.090	62.55	.068	-----	-----	64.48	.070
1856.....	100.54	.109	78.65	.085	60.71	.066	14.15	.015	90.36	.098
1857.....	116.51	.126	87.11	.094	78.64	.085	-----	-----	142.89	.154
1858.....	94.34	.102	75.72	.082	78.09	.084	-----	-----	64.00	.069
1859.....	125.38	.135	84.62	.091	76.16	.082	9.39	.010	104.07	.112
1860.....	122.63	.132	77.79	.084	66.02	.071	-----	-----	103.85	.112
1861.....	129.61	.140	79.05	.085	97.32	.105	-----	-----	71.91	.078
1862.....	117.12	.126	73.30	.079	190.18	.205	12.82	.014	74.04	.080
1863.....	117.08	.126	62.40	.067	164.76	.178	15.00	.016	60.12	.065
1864.....	121.00	.131	72.38	.078	146.95	.159	-----	-----	60.06	.065
1865.....	104.94	.113	68.78	.074	103.07	.111	11.11	.012	59.94	.065
1866.....	132.95	.144	73.62	.079	81.74	.088	-----	-----	64.38	.070
1867.....	129.32	.140	78.81	.085	65.39	.071	-----	-----	65.09	.070
1868.....	146.39	.158	81.79	.088	57.84	.062	16.34	.018	64.57	.070
1869.....	110.54	.119	82.23	.089	57.96	.063	12.89	.014	87.30	.094
1870.....	112.69	.122	79.20	.086	56.34	.061	15.00	.016	101.79	.110
1871.....	107.37	.116	106.75	.115	79.36	.086	20.83	.022	69.64	.075
1872.....	102.31	.110	76.61	.083	84.52	.091	18.00	.019	78.99	.085
1873.....	89.75	.097	74.38	.080	71.11	.077	15.32	.017	76.17	.082
1874.....	93.02	.100	69.95	.076	58.61	.063	25.00	.027	95.16	.103
1875.....	99.08	.107	70.37	.076	49.59	.054	11.35	.012	71.92	.078
1876.....	100.42	.108	73.44	.079	52.45	.057	15.04	.016	80.87	.087
1877.....	108.73	.117	77.85	.084	54.38	.059	15.11	.016	74.31	.080
1878.....	110.80	.120	78.50	.085	49.53	.053	16.09	.017	66.43	.072
1879.....	104.56	.113	66.04	.071	47.16	.051	13.01	.014	63.75	.069
1880.....	104.28	.113	63.13	.068	54.96	.059	14.46	.016	69.86	.075
1881.....	94.15	.102	64.45	.070	74.07	.080	14.58	.016	90.08	.097
1882.....	94.92	.102	67.26	.073	81.80	.088	14.81	.016	98.95	.107
1883.....	85.79	.093	71.90	.078	67.00	.072	14.02	.015	96.32	.104
1884.....	90.85	.098	64.85	.070	51.27	.055	13.16	.014	95.95	.104
1885.....	92.24	.100	52.29	.056	52.36	.057	12.10	.013	91.56	.099
1886.....	87.14	.094	41.30	.045	52.94	.057	10.71	.012	81.23	.088
1887.....	93.31	.101	38.09	.041	51.90	.056	11.15	.012	82.28	.089
1888.....	97.29	.105	39.93	.043	60.20	.065	12.03	.013	73.50	.079
1889.....	92.21	.100	44.55	.048	65.55	.071	12.71	.014	61.49	.066
1890.....	92.05	.099	46.64	.050	60.69	.066	12.35	.013	58.83	.064
1891.....	102.59	.111	48.12	.052	56.77	.061	12.57	.014	57.50	.062

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	121. Paraffine.		122. Mother-of-pearl shells.		123. Petroleum, refined.		124. Pepper.		125. Phosphorus.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks		Marks.		Marks.	
1850.....			70.97	\$0.077			63.10	\$0.068	688.12	\$0.743
1851.....			81.43	.088			62.08	.067	635.92	.687
1852.....			74.15	.080			70.37	.076	548.21	.592
1853.....			61.54	.066			81.79	.088	509.78	.550
1854.....			53.98	.058			91.29	.099	546.88	.590
1855.....			54.23	.059			88.26	.095	568.44	.614
1856.....			46.83	.051			96.25	.104	615.00	.664
1857.....			100.63	.109			91.33	.099	636.82	.687
1858.....			87.05	.094			80.45	.087	607.87	.656
1859.....	180.00	\$0.194	60.85	.066			83.50	.090	637.50	.688
1860.....	231.25	.250	59.95	.065			80.21	.087	614.24	.663
1861.....			50.76	.055			75.65	.082	506.88	.547
1862.....	91.07	.098	46.98	.051	54.18	\$0.058	75.30	.081	489.05	.528
1863.....	180.24	.195	41.21	.044	54.11	.058	71.68	.077	531.56	.574
1864.....	174.32	.188	35.06	.038	53.27	.057	70.16	.076	420.86	.454
1865.....	140.19	.151	50.52	.064	75.84	.082	65.30	.070	392.04	.423
1866.....	91.47	.099	58.70	.063	54.43	.059	63.32	.068	399.54	.431
1867.....	120.00	.130	68.32	.074	38.63	.042	63.27	.068	375.10	.405
1868.....	82.63	.089	88.89	.096	37.39	.040	53.05	.057	373.65	.403
1869.....	84.62	.091	80.69	.087	42.65	.046	83.49	.090	387.08	.418
1870.....	129.38	.140	79.68	.086	42.50	.046	94.95	.103	417.13	.450
1871.....	84.53	.091	68.65	.074	37.52	.041	109.71	.118	434.61	.469
1872.....	126.00	.136	88.64	.096	38.74	.042	130.89	.141	563.56	.608
1873.....			156.97	.169	30.07	.032	143.94	.155	668.69	.722
1874.....	112.33	.121	233.12	.252	23.03	.025	136.26	.147	755.97	.816
1875.....			201.23	.217	22.11	.024	112.50	.121	659.61	.712
1876.....	111.20	.120	224.78	.243	36.11	.039	86.21	.093	720.20	.777
1877.....	164.06	.177	170.21	.184	25.83	.028	82.95	.090	613.34	.662
1878.....	167.87	.181	228.67	.247	20.77	.022	70.63	.076	695.51	.751
1879.....	106.50	.115	204.60	.221	17.11	.018	72.19	.078	644.83	.696
1880.....	67.40	.073	201.16	.217	17.86	.019	86.91	.094	543.64	.587
1881.....	91.06	.098	137.17	.148	15.65	.017	106.07	.115	477.82	.516
1882.....	84.42	.091	134.10	.145	14.36	.016	110.27	.119	467.08	.504
1883.....	95.09	.103	123.20	.133	15.56	.017	129.54	.140	524.79	.567
1884.....	100.31	.108	99.74	.108	15.29	.017	146.57	.158	553.22	.597
1885.....	99.84	.108	124.49	.134	14.79	.016	152.64	.165	571.27	.617
1886.....	90.60	.098	124.80	.135	13.00	.014	159.31	.172	527.19	.569
1887.....	69.69	.075	126.28	.136	12.40	.013	139.42	.151	517.87	.559
1888.....	58.29	.063	125.73	.136	14.55	.016	152.77	.165	568.85	.614
1889.....	62.16	.067	121.47	.131	13.32	.014	135.81	.147	578.30	.624
1890.....	60.98	.066	140.17	.151	12.75	.014	113.32	.122	560.87	.605
1891.....	69.93	.075	130.44	.141	12.49	.013	87.40	.094	549.79	.594

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	126. Piassava.		127. Allspice.		128. Quicksilver.		129. Rice.		130. Rice, Japan.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	11.83	\$0.013	114.11	\$0.123	768.21	\$0.829	30.34	\$0.033	.....	.....
1851.....	14.49	.016	97.50	.105	727.78	.786	27.12	.029	.....	.....
1852.....	12.62	.014	95.98	.104	612.91	.662	23.16	.025	.....	.....
1853.....	20.09	.022	106.74	.115	481.67	.520	31.13	.034	.....	.....
1854.....	20.80	.022	102.66	.111	428.66	.463	28.33	.031	.....	.....
1855.....	12.52	.014	95.53	.103	399.91	.432	32.38	.035	.....	.....
1856.....	17.56	.019	87.70	.095	382.45	.413	25.02	.027	.....	.....
1857.....	29.41	.032	79.39	.086	406.58	.439	24.65	.027	.....	.....
1858.....	25.00	.027	57.82	.062	420.94	.454	20.31	.022	.....	.....
1859.....	17.22	.019	58.57	.063	.....	.....	22.08	.024	.....	.....
1860.....	19.97	.022	62.35	.067	445.00	.480	25.87	.028	.....	.....
1861.....	26.72	.029	54.08	.058	434.29	.469	25.83	.028	.....	.....
1862.....	26.19	.028	55.50	.060	443.27	.479	23.06	.025	.....	.....
1863.....	22.53	.024	49.69	.054	434.42	.469	23.85	.026	.....	.....
1864.....	26.37	.028	43.82	.047	503.12	.543	22.39	.024	.....	.....
1865.....	33.62	.036	47.33	.051	446.25	.482	23.98	.026	.....	.....
1866.....	38.59	.042	48.84	.053	423.06	.457	22.80	.025	.....	.....
1867.....	32.54	.035	37.82	.041	447.92	.484	24.33	.026	.....	.....
1868.....	28.14	.030	45.96	.050	417.23	.430	23.76	.026	.....	.....
1869.....	26.88	.029	41.86	.045	447.33	.483	19.11	.021	.....	.....
1870.....	37.46	.040	41.85	.045	494.59	.534	22.16	.024	.....	.....
1871.....	48.28	.052	39.64	.043	600.16	.648	22.40	.024	.....	.....
1872.....	45.42	.049	62.16	.067	719.82	.777	20.44	.022	.....	.....
1873.....	41.86	.045	55.54	.060	858.98	.927	20.26	.022	.....	.....
1874.....	47.54	.051	61.84	.067	1,235.62	1.334	22.84	.025	.....	.....
1875.....	46.65	.050	59.98	.065	851.78	.920	19.16	.021	.....	.....
1876.....	42.31	.046	71.17	.077	634.74	.685	19.79	.021	.....	.....
1877.....	41.22	.044	78.66	.085	478.57	.517	21.17	.023	.....	.....
1878.....	45.87	.049	88.05	.095	448.67	.484	22.16	.024	.....	.....
1879.....	45.46	.049	95.96	.104	401.44	.433	20.57	.022	.....	.....
1880.....	43.13	.047	85.60	.092	433.72	.468	19.65	.021	.....	.....
1881.....	45.34	.049	91.04	.098	417.70	.451	19.17	.021	.....	.....
1882.....	51.63	.056	77.98	.084	404.81	.437	17.47	.019	23.70	\$0.026
1883.....	49.65	.054	62.72	.068	354.67	.383	18.86	.020	19.97	.022
1884.....	48.72	.053	51.68	.056	374.80	.405	18.26	.020	19.77	.021
1885.....	44.60	.048	48.72	.053	376.05	.406	17.24	.019	20.59	.022
1886.....	43.43	.047	46.72	.050	367.95	.397	16.30	.018	19.54	.021
1887.....	62.75	.068	47.80	.052	456.61	.493	16.88	.018	19.33	.021
1888.....	66.91	.072	49.68	.054	493.95	.533	16.62	.018	17.92	.019
1889.....	67.84	.073	60.57	.065	536.63	.579	17.46	.019	17.11	.018
1890.....	82.77	.089	59.95	.065	594.21	.641	17.62	.019	20.94	.023
1891.....	96.18	.104	53.89	.058	483.75	.522	18.17	.020	22.38	.024

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	131. Rice, Java.		132. Rye.		133. Raisins.		134. Rum.		135. Grassseed.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	23.06	\$0.025	12.09	\$0.731	46.58	\$0.050	51.41	\$0.056	45.36	\$0.049
1851.....	21.87	.024	14.15	.855	36.55	.039	50.06	.054	42.04	.045
1852.....	21.03	.023	13.54	.819	34.48	.037	45.71	.049	40.66	.044
1853.....	34.34	.037	16.73	1.011	54.05	.058	64.26	.069	42.43	.046
1854.....	29.08	.031	18.16	1.098	55.61	.060	64.76	.070	34.83	.038
1855.....	38.94	.042	21.96	1.328	55.86	.060	72.24	.078	41.36	.045
1856.....	25.32	.027	21.41	1.294	83.46	.090	67.79	.073	48.21	.052
1857.....	25.86	.028	14.80	.895	95.85	.103	85.50	.092	52.53	.057
1858.....	22.49	.024	13.48	.815	64.92	.070	58.40	.063	53.27	.058
1859.....	22.11	.024	13.25	.801	60.91	.066	70.34	.076	51.94	.056
1860.....	25.37	.027	15.44	.933	59.23	.064	73.96	.080	43.63	.047
1861.....	28.99	.031	15.77	.953	56.27	.061	70.50	.076	51.96	.056
1862.....	35.95	.039	16.68	1.008	53.20	.057	57.68	.062	47.34	.051
1863.....	39.37	.043	14.94	.903	56.54	.061	60.63	.065	43.75	.047
1864.....	26.94	.029	11.40	.689	51.56	.056	80.34	.087	40.59	.044
1865.....	34.25	.037	13.53	.818	48.11	.052	67.68	.073	43.11	.047
1866.....	40.15	.043	14.86	.898	64.38	.070	69.83	.075	36.75	.040
1867.....	37.34	.040	21.41	1.294	61.93	.067	72.53	.078	41.69	.045
1868.....	34.09	.037	22.43	1.356	53.38	.058	81.77	.088	34.96	.038
1869.....	38.40	.041	18.36	1.110	44.94	.049	89.95	.097	35.17	.038
1870.....	38.15	.041	15.61	.944	58.21	.063	93.29	.101	33.75	.036
1871.....	38.64	.042	17.08	1.033	53.71	.058	83.25	.090	45.92	.050
1872.....	43.70	.047	15.04	.909	52.57	.057	90.18	.097	42.71	.046
1873.....	28.78	.031	17.58	1.063	58.00	.063	105.41	.114	38.48	.042
1874.....	51.79	.056	18.67	1.129	60.89	.066	111.07	.120	40.85	.044
1875.....	42.26	.046	15.88	.960	66.77	.072	96.48	.104	38.98	.042
1876.....	39.52	.043	23.68	1.432	55.24	.060	106.37	.115	50.07	.054
1877.....	38.06	.041	17.45	1.055	48.04	.052	116.55	.126	43.94	.047
1878.....	43.62	.047	13.20	.798	37.17	.040	113.02	.122	39.27	.042
1879.....	39.73	.043	12.88	.779	47.59	.051	109.29	.118	37.24	.040
1880.....	40.96	.044	18.54	1.121	55.01	.059	106.14	.115	42.46	.046
1881.....	34.60	.037	19.64	1.187	62.43	.067	113.93	.123	47.12	.051
1882.....	36.16	.039	16.35	.988	58.70	.063	108.18	.117	50.62	.055
1883.....	30.22	.033	14.16	.856	48.60	.052	99.72	.108	54.76	.059
1884.....	35.70	.039	13.76	.832	41.16	.044	94.44	.102	42.97	.046
1885.....	26.29	.028	12.05	.728	51.27	.055	115.01	.124	49.16	.053
1886.....	27.62	.030	10.71	.647	47.30	.051	116.12	.125	39.35	.042
1887.....	27.35	.030	9.62	.582	38.49	.042	121.29	.131	44.17	.048
1888.....	27.52	.030	10.73	.649	37.37	.040	104.62	.113	48.62	.052
1889.....	29.11	.031	10.82	.654	38.44	.041	102.74	.111	44.56	.048
1890.....	27.67	.030	12.72	.769	48.77	.053	117.68	.127	44.83	.048
1891.....	26.05	.028	17.31	1.046	46.84	.051	97.54	.105	41.48	.045

EXHIBIT A.—Import prices of 187 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	136. Cloverseed.		137. Linseed.		138. Rape and turnip seed.		139. Sesamum.		140. Sago.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	77.96	\$0.084	16.72	\$0.018	23.51	\$0.025	19.15	\$0.021	56.79	\$0.061
1851.....	87.27	.094	16.52	.018	23.06	.025	-----	-----	44.70	.048
1852.....	99.86	.108	21.30	.023	24.18	.026	-----	-----	39.55	.043
1853.....	116.78	.126	21.94	.024	29.70	.032	30.74	.033	47.40	.051
1854.....	102.90	.111	27.58	.030	28.69	.031	32.26	.035	45.88	.050
1855.....	114.02	.123	33.11	.036	41.17	.044	39.09	.042	51.84	.056
1856.....	122.82	.133	25.43	.027	34.16	.037	34.05	.037	53.06	.057
1857.....	84.27	.091	27.64	.030	35.67	.039	35.83	.039	49.04	.053
1858.....	96.58	.104	24.11	.026	33.48	.036	33.12	.036	39.56	.043
1859.....	81.69	.088	23.81	.026	30.44	.033	27.74	.030	33.28	.036
1860.....	110.88	.120	26.07	.028	27.45	.030	31.88	.034	40.85	.044
1861.....	97.33	.105	20.87	.023	29.31	.032	36.65	.040	40.90	.044
1862.....	87.94	.095	35.00	.038	34.71	.037	38.51	.042	46.44	.050
1863.....	83.18	.090	28.11	.030	30.00	.032	37.16	.040	42.88	.046
1864.....	96.30	.104	25.22	.027	32.57	.035	35.81	.039	38.63	.042
1865.....	129.51	.140	44.31	.048	35.11	.038	34.41	.037	40.93	.044
1866.....	89.99	.097	24.84	.027	30.30	.033	37.52	.041	37.05	.040
1867.....	87.83	.095	32.87	.035	30.96	.033	37.97	.041	37.94	.041
1868.....	99.07	.107	23.71	.026	27.44	.030	36.36	.039	43.23	.047
1869.....	97.37	.105	25.34	.027	26.07	.028	35.11	.038	43.35	.047
1870.....	99.41	.107	25.43	.027	36.08	.039	35.77	.039	37.18	.040
1871.....	114.89	.124	33.22	.036	36.41	.039	35.25	.038	35.75	.039
1872.....	108.26	.117	24.00	.026	31.69	.034	37.83	.041	35.07	.038
1873.....	95.05	.103	28.09	.030	28.94	.031	37.91	.041	37.14	.040
1874.....	96.43	.104	26.81	.029	25.43	.027	36.31	.039	39.90	.043
1875.....	108.72	.117	26.93	.029	34.20	.037	33.91	.037	38.05	.041
1876.....	132.92	.143	28.89	.031	30.82	.033	29.32	.032	35.79	.039
1877.....	124.67	.135	32.14	.035	32.82	.035	37.41	.040	38.99	.042
1878.....	94.23	.102	26.02	.028	30.24	.033	34.31	.037	41.86	.045
1879.....	87.54	.095	34.72	.037	23.64	.026	33.24	.036	40.50	.044
1880.....	99.28	.107	25.66	.028	22.53	.024	32.18	.035	36.78	.040
1881.....	98.85	.107	26.74	.029	31.24	.034	39.44	.043	37.75	.041
1882.....	99.54	.107	27.67	.030	28.04	.030	34.01	.037	33.67	.036
1883.....	126.55	.137	23.68	.026	30.74	.033	28.57	.031	29.32	.032
1884.....	103.47	.112	22.29	.024	24.60	.027	26.95	.029	26.59	.029
1885.....	86.04	.093	24.47	.026	22.98	.025	31.26	.034	28.44	.031
1886.....	89.35	.096	23.86	.026	24.69	.027	24.55	.027	26.79	.029
1887.....	85.79	.093	21.49	.023	19.77	.021	26.67	.029	26.34	.028
1888.....	95.05	.103	21.41	.023	23.09	.025	28.18	.030	30.80	.033
1889.....	93.71	.101	21.60	.023	24.85	.027	29.07	.031	32.74	.035
1890.....	79.02	.085	22.78	.025	25.37	.027	28.90	.031	27.27	.029
1891.....	89.12	.096	23.12	.025	25.17	.027	28.70	.031	26.31	.028

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	141. Saltpetre.		142. Anchovies.		143. Sardines.		144. Gum shellac.		145. Slate.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	41.00	\$0.044	94.27	\$0.102	248.17	\$0.268	102.69	\$0.111	191.51	\$0.207
1851.....	36.81	.040	45.92	.050	245.88	.265	100.99	.109	185.24	.200
1852.....	37.10	.040	42.88	.046	247.96	.268	100.96	.109	166.90	.180
1853.....	39.14	.042	56.50	.061	246.82	.266	104.75	.113	199.22	.215
1854.....	39.88	.043	57.03	.062	226.75	.245	103.18	.111	205.28	.222
1855.....	69.37	.075	53.18	.057	239.58	.259	102.37	.111	202.64	.219
1856.....	36.91	.040	55.22	.060	207.40	.224	102.98	.111	195.00	.211
1857.....	41.80	.045	60.24	.065	199.35	.215	159.05	.172	193.07	.208
1858.....	33.35	.036	45.47	.049	196.40	.212	142.83	.154	187.33	.202
1859.....	32.62	.035	44.11	.048	188.87	.204	189.83	.205	212.17	.229
1860.....	25.97	.028	36.47	.039	244.61	.264	418.35	.452	210.42	.227
1861.....	27.94	.030	38.28	.041	231.17	.250	372.29	.402	206.56	.223
1862.....	34.00	.037	39.79	.043	222.13	.240	377.72	.408	202.79	.219
1863.....	27.04	.029	38.08	.041	192.96	.208	334.85	.361	206.67	.223
1864.....	31.08	.034	44.23	.048	201.70	.218	314.02	.339	247.03	.267
1865.....	25.48	.028	94.66	.102	207.59	.224	210.19	.227	208.86	.225
1866.....	24.17	.026	56.53	.061	271.10	.293	185.27	.200	174.11	.188
1867.....	21.98	.024	68.87	.074	218.01	.235	165.51	.179	230.73	.249
1868.....	23.75	.026	99.78	.108	186.81	.202	176.43	.190	210.18	.227
1869.....	30.54	.033	46.73	.050	188.88	.204	185.57	.200	212.08	.229
1870.....	31.08	.034	142.99	.154	175.75	.190	182.83	.197	201.85	.218
1871.....	31.03	.033	92.42	.100	261.15	.282	279.40	.302	210.00	.227
1872.....	29.78	.032	110.50	.119	246.99	.267	326.64	.353	215.38	.233
1873.....	28.98	.031	117.69	.127	223.53	.241	349.50	.377	212.72	.230
1874.....	23.96	.026	142.77	.154	221.71	.239	461.64	.498	200.89	.217
1875.....	23.12	.025	143.51	.155	213.66	.231	438.16	.473	200.40	.216
1876.....	23.11	.025	130.83	.141	191.93	.207	327.98	.354	215.14	.232
1877.....	27.79	.030	109.24	.118	185.11	.200	248.21	.268	165.48	.179
1878.....	29.76	.032	88.97	.096	174.19	.188	185.02	.200	184.41	.199
1879.....	28.13	.030	132.39	.143	170.21	.184	179.41	.194	165.33	.178
1880.....	30.51	.033	212.48	.229	203.91	.220	272.14	.294	149.25	.161
1881.....	28.70	.031	328.72	.355	220.79	.238	271.73	.293	130.23	.141
1882.....	26.05	.028	219.17	.237	233.76	.252	230.01	.248	145.89	.157
1883.....	22.33	.024	234.43	.253	221.12	.239	201.11	.217	136.49	.147
1884.....	19.24	.021	202.32	.218	178.58	.193	165.12	.178	131.97	.142
1885.....	19.75	.021	141.68	.153	187.94	.203	148.26	.160	135.83	.147
1886.....	19.13	.021	126.21	.136	172.63	.186	123.83	.134	169.55	.183
1887.....	19.23	.021	126.99	.137	172.90	.187	120.09	.130	137.44	.148
1888.....	19.01	.021	135.13	.146	168.16	.182	121.62	.131	137.47	.148
1889.....	18.38	.020	170.32	.184	165.76	.179	133.85	.144	126.38	.136
1890.....	16.02	.017	112.36	.121	157.41	.170	162.92	.176	126.59	.137
1891.....	17.18	.019	121.65	.131	151.55	.164	161.55	.174	124.41	.134

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	146. Lard.		147. Sulphur, crude.		148. Sulphur, refined.		149. Sail yarn.		150. Soda crystals.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	21.24	\$0.023	56.76	\$0.061	174.70	\$0.189	6.59	\$0.007	71.34	\$0.077
1851.....	18.28	.020	47.96	.052	158.90	.172	6.48	.007	79.41	.086
1852.....	17.52	.019	54.61	.059	157.87	.170	4.38	.005	107.14	.116
1853.....	18.15	.020	46.31	.050	178.72	.193	6.52	.007	115.38	.125
1854.....	16.83	.018	65.97	.071	204.79	.221	8.51	.009	113.93	.123
1855.....	16.64	.018	82.19	.089	189.02	.204	7.16	.008	108.71	.117
1856.....	18.02	.019	75.83	.082	207.11	.224	6.24	.007	120.38	.130
1857.....	22.27	.024	75.21	.081	217.16	.234	5.52	.006	125.96	.136
1858.....	20.92	.023	66.99	.072	171.36	.185	5.56	.006	100.96	.109
1859.....	20.16	.022	56.22	.061	187.65	.203	6.31	.007	104.43	.113
1860.....	17.54	.019	54.50	.059	199.55	.215	5.79	.006	102.86	.111
1861.....	16.56	.018	65.30	.070	173.65	.187	6.67	.007	96.50	.104
1862.....	15.69	.017	58.13	.063	177.92	.192	7.24	.008	88.11	.095
1863.....	15.18	.016	71.81	.078	144.20	.156	7.35	.008	74.64	.086
1864.....	14.35	.015	64.93	.070	140.21	.151	7.91	.009	97.44	.105
1865.....	15.57	.017	63.82	.069	126.18	.136	7.94	.009	108.34	.117
1866.....	19.64	.021	61.76	.067	145.15	.157	8.28	.009	123.66	.133
1867.....	18.60	.020	58.19	.063	144.09	.156	7.89	.009	102.58	.111
1868.....	14.81	.016	66.94	.072	157.41	.170	7.18	.008	121.06	.131
1869.....	14.19	.015	68.01	.073	137.05	.148	7.06	.008	125.63	.136
1870.....	13.39	.014	67.89	.073	135.03	.146	7.22	.008	123.31	.133
1871.....	16.35	.018	69.32	.075	138.47	.149	9.07	.010	99.62	.108
1872.....	25.34	.027	82.78	.089	120.75	.130	7.28	.008	76.49	.083
1873.....	19.32	.021	56.12	.061	92.23	.100	8.46	.009	83.04	.090
1874.....	17.06	.018	57.91	.063	102.96	.111	9.10	.010	105.68	.114
1875.....	15.21	.016	49.51	.053	127.04	.137	9.88	.011	122.19	.132
1876.....	16.12	.017	78.61	.085	115.94	.125	10.63	.011	111.74	.121
1877.....	14.58	.016	76.87	.083	125.15	.135	10.68	.012	97.77	.106
1878.....	12.58	.014	75.56	.082	116.90	.126	10.73	.012	78.13	.084
1879.....	12.05	.013	64.83	.070	100.50	.108	10.10	.011	72.63	.078
1880.....	13.09	.014	73.70	.080	108.87	.118	9.11	.010	84.20	.091
1881.....	12.02	.013	68.34	.074	99.88	.108	8.09	.009	112.16	.121
1882.....	11.82	.013	55.03	.059	104.33	.113	7.58	.008	116.62	.126
1883.....	11.04	.012	37.43	.040	110.05	.119	7.82	.008	97.15	.105
1884.....	10.26	.011	45.68	.049	115.60	.125	8.61	.009	79.52	.086
1885.....	8.72	.009	48.35	.052	87.08	.094	8.33	.009	67.94	.073
1886.....	8.25	.009	56.04	.060	87.73	.095	7.68	.008	64.33	.069
1887.....	8.82	.010	45.06	.049	74.30	.080	8.69	.009	69.32	.075
1888.....	11.13	.012	38.78	.042	68.09	.074	9.56	.010	85.34	.092
1889.....	12.65	.014	37.87	.041	67.65	.073	9.69	.010	85.43	.092
1890.....	17.03	.018	36.04	.039	71.00	.077	8.79	.009	67.68	.073
1891.....	11.97	.013	35.73	.039	75.11	.081	8.09	.009	66.45	.072

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	151. Steel.		152. Stearine.		153. Coal.		154. Chair cane.		155. Sumac.	
	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	14.57	\$35.231	24.78	\$0.027	1.35	\$3.264	31.10	\$0.034	21.52	\$0.023
1851.....	14.58	35.256	26.99	.029	1.26	3.047	32.30	.035	18.39	.020
1852.....	13.17	31.846	24.66	.027	1.26	3.047	32.18	.035	17.37	.019
1853.....	12.86	31.037	22.98	.025	1.63	3.941	35.48	.038	20.94	.023
1854.....	10.57	25.559	19.03	.021	1.91	4.619	30.80	.033	25.26	.027
1855.....	11.01	26.623	20.38	.022	1.77	4.280	32.12	.035	20.80	.022
1856.....	10.73	25.946	17.39	.019	1.75	4.232	35.66	.038	21.06	.023
1857.....	18.60	44.976	20.74	.022	1.69	4.087	53.19	.057	20.85	.023
1858.....	16.32	39.463	29.47	.032	1.48	3.579	48.52	.052	20.04	.022
1859.....	17.12	41.398	26.53	.029	1.56	3.772	40.81	.044	19.74	.021
1860.....	20.35	49.208	27.97	.030	1.50	3.627	37.38	.040	21.48	.023
1861.....	15.03	36.344	24.83	.027	1.59	3.845	36.75	.040	18.77	.020
1862.....	13.86	33.515	21.50	.023	1.61	3.893	42.31	.046	17.77	.019
1863.....	12.35	29.843	19.69	.021	1.50	3.627	53.70	.058	17.48	.019
1864.....	14.72	35.594	22.59	.024	1.58	3.821	58.15	.063	23.15	.025
1865.....	13.30	32.160	25.76	.028	1.61	3.893	53.40	.058	23.92	.026
1866.....	13.61	32.910	22.40	.024	1.63	3.941	50.52	.055	23.32	.025
1867.....	12.85	31.072	22.64	.024	1.60	3.869	29.07	.031	34.56	.037
1868.....	14.22	34.385	25.21	.027	1.55	3.748	43.51	.047	30.67	.033
1869.....	14.58	35.256	23.29	.025	1.51	3.651	43.14	.047	33.14	.036
1870.....	14.96	36.174	24.83	.027	1.50	3.627	44.12	.048	32.63	.035
1871.....	13.42	32.451	22.02	.024	1.54	3.724	39.51	.043	27.97	.030
1872.....	12.79	30.927	22.44	.024	2.17	5.247	53.97	.058	27.05	.029
1873.....	11.48	27.760	24.32	.026	2.76	6.674	53.03	.057	25.65	.028
1874.....	13.81	33.394	25.00	.027	2.22	5.368	53.66	.060	29.68	.032
1875.....	14.32	34.627	28.46	.031	1.82	4.401	49.21	.053	29.71	.032
1876.....	12.00	29.017	24.38	.026	1.63	3.941	48.55	.052	29.10	.031
1877.....	11.83	28.606	24.28	.026	1.48	3.579	49.31	.053	30.57	.033
1878.....	11.92	28.823	22.72	.025	1.32	3.192	44.81	.048	29.42	.032
1879.....	9.20	22.246	22.62	.024	1.22	2.950	39.77	.043	27.91	.030
1880.....	11.84	28.630	22.25	.024	1.25	3.023	52.33	.056	23.12	.025
1881.....	12.45	30.105	20.85	.023	1.23	2.974	51.68	.056	24.62	.027
1882.....	13.36	32.306	19.79	.021	1.23	2.974	51.82	.056	24.02	.026
1883.....	11.77	28.461	20.51	.022	1.22	2.950	46.69	.050	28.54	.032
1884.....	11.14	26.937	16.61	.018	1.20	2.902	43.12	.047	29.35	.032
1885.....	11.17	27.010	15.74	.017	1.17	2.829	43.47	.047	26.40	.029
1886.....	10.19	24.640	12.06	.013	1.14	2.757	40.19	.043	25.30	.027
1887.....	9.46	22.875	13.12	.014	1.12	2.708	40.15	.043	23.74	.026
1888.....	9.89	23.915	12.88	.014	1.13	2.732	39.42	.043	24.94	.027
1889.....	10.08	24.374	13.48	.015	1.29	3.119	43.41	.047	21.69	.023
1890.....	10.77	26.043	13.90	.015	1.58	3.821	45.06	.049	23.85	.026
1891.....	11.91	28.799	16.19	.017	1.63	3.941	50.28	.054	23.71	.026

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	156. Tobacco.		157. Tobacco, Cuba.		158. Tobacco, Domingo.		159. Tobacco, Porto Rico.		160. Tallow.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	109.30	\$0.118	201.50	\$0.218	125.59	\$0.136	91.82	\$0.099	69.20	\$0.075
1851.....	111.89	.121	201.74	.218	127.23	.137	88.76	.096	66.24	.072
1852.....	96.06	.104	172.07	.186	129.46	.140	89.14	.096	76.20	.082
1853.....	112.42	.121	227.23	.245	91.97	.099	77.45	.084	88.86	.096
1854.....	108.75	.117	187.03	.202	95.52	.103	63.64	.069	118.49	.128
1855.....	124.13	.134	192.53	.208	145.53	.157	77.47	.084	104.34	.113
1856.....	161.76	.175	281.88	.304	195.90	.211	88.24	.095	93.39	.101
1857.....	165.59	.179	217.42	.235	211.74	.229	125.98	.136	102.96	.111
1858.....	126.60	.137	187.56	.202	132.14	.143	92.01	.099	97.50	.105
1859.....	141.25	.152	238.38	.257	131.77	.142	122.86	.133	102.74	.111
1860.....	146.31	.158	275.45	.297	156.13	.169	123.65	.133	91.40	.099
1861.....	164.63	.178	313.68	.339	184.55	.199	110.86	.120	93.49	.101
1862.....	174.33	.188	320.28	.346	158.07	.171	87.78	.095	90.03	.097
1863.....	141.85	.153	284.41	.307	107.35	.116	82.68	.089	81.71	.088
1864.....	150.26	.162	208.54	.225	111.87	.121	69.77	.075	82.02	.089
1865.....	115.14	.124	168.97	.182	100.27	.108	62.94	.068	56.44	.061
1866.....	99.83	.108	143.45	.155	101.72	.110	50.01	.054	67.21	.073
1867.....	114.40	.124	120.80	.130	113.01	.122	49.36	.053	87.56	.095
1868.....	131.18	.142	167.16	.180	88.46	.095	59.43	.064	89.26	.096
1869.....	146.86	.159	217.08	.234	108.65	.117	93.98	.101	89.15	.096
1870.....	131.63	.142	244.68	.264	101.19	.109	97.20	.105	87.83	.095
1871.....	159.22	.172	415.85	.449	104.05	.112	89.86	.097	86.78	.094
1872.....	177.19	.191	291.84	.315	136.88	.148	89.97	.097	86.55	.093
1873.....	149.80	.162	385.03	.416	116.02	.125	94.39	.102	84.02	.091
1874.....	147.91	.160	225.01	.243	92.90	.100	80.11	.086	82.36	.089
1875.....	140.89	.152	255.00	.275	86.15	.093	83.37	.090	86.29	.093
1876.....	146.95	.159	.....	.....	83.13	.090	83.95	.091	85.87	.093
1877.....	142.97	.154	410.00	.443	100.99	.109	80.85	.087	84.42	.091
1878.....	141.78	.153	318.89	.344	104.24	.113	141.00	.152	81.64	.088
1879.....	128.97	.139	329.51	.356	95.39	.103	122.45	.132	70.70	.076
1880.....	135.21	.146	373.34	.403	103.35	.112	97.45	.105	69.52	.075
1881.....	124.16	.134	177.27	.191	106.92	.115	87.18	.094	73.53	.079
1882.....	110.43	.119	187.50	.202	74.86	.081	74.92	.081	87.15	.094
1883.....	107.80	.116	.....	.....	69.60	.075	84.85	.092	90.16	.097
1884.....	120.31	.130	200.07	.216	68.00	.073	161.82	.175	75.43	.081
1885.....	124.94	.135	86.14	.093	68.39	.074	77.37	.085	70.72	.076
1886.....	126.23	.136	.....	.....	79.66	.086	75.31	.081	57.20	.060
1887.....	114.20	.123	.....	.....	71.93	.078	71.04	.077	55.83	.062
1888.....	115.67	.125	386.11	.417	66.22	.071	66.44	.072	52.72	.057
1889.....	125.71	.136	177.14	.191	78.89	.085	61.62	.067	62.27	.067
1890.....	131.30	.142	223.57	.241	89.15	.096	59.39	.064	55.90	.060
1891.....	122.32	.132	303.59	.328	76.04	.082	80.03	.086	55.90	.060

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	161. Cordage, new.		162. Catechu.		163. Gambier.		164. Tea.		165. Fish oil.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	64.79	\$0.070	40.56	\$0.044	27.12	\$0.029	287.50	\$0.310	58.60	\$0.063
1851.....	65.12	.070	37.99	.041	27.23	.029	297.64	.321	62.38	.067
1852.....	56.73	.061	40.51	.044	35.54	.038	270.25	.292	62.45	.067
1853.....	66.93	.072	59.92	.065	55.53	.060	294.66	.318	63.78	.069
1854.....	102.71	.111	85.69	.093	53.76	.058	284.93	.308	64.40	.070
1855.....	110.99	.120	54.75	.059	42.63	.046	259.98	.281	74.54	.080
1856.....	86.74	.094	63.27	.068	37.77	.041	297.87	.322	75.37	.081
1857.....	85.03	.092	99.79	.108	38.44	.041	341.81	.369	81.47	.088
1858.....	73.76	.080	73.25	.079	28.25	.030	280.01	.302	66.48	.072
1859.....	75.97	.082	59.50	.064	33.31	.036	337.10	.364	64.04	.069
1860.....	74.10	.080	55.54	.060	35.72	.039	379.17	.409	61.02	.066
1861.....	75.74	.082	51.83	.056	35.03	.038	295.29	.319	64.63	.070
1862.....	89.03	.096	56.91	.061	34.27	.037	333.97	.361	74.15	.080
1863.....	83.51	.090	53.76	.058	44.94	.049	350.17	.378	84.56	.091
1864.....	96.20	.104	50.96	.055	50.62	.055	307.11	.332	93.84	.101
1865.....	86.24	.093	51.25	.055	44.91	.048	288.13	.311	85.92	.093
1866.....	92.41	.100	58.76	.063	40.10	.043	277.07	.299	76.57	.083
1867.....	77.36	.084	84.39	.091	39.66	.043	349.62	.377	75.29	.081
1868.....	87.40	.094	74.52	.080	38.54	.042	338.72	.366	66.62	.072
1869.....	89.16	.096	63.49	.069	38.84	.042	316.19	.341	67.48	.073
1870.....	84.26	.091	47.14	.051	34.47	.037	286.86	.310	69.71	.075
1871.....	84.61	.091	53.85	.058	35.64	.038	280.12	.302	68.82	.074
1872.....	88.00	.095	50.59	.055	46.02	.050	302.08	.326	68.30	.074
1873.....	94.92	.102	46.69	.050	51.47	.056	282.98	.305	56.83	.061
1874.....	86.78	.094	56.55	.061	52.04	.056	279.60	.302	60.46	.065
1875.....	80.36	.087	50.86	.055	53.16	.057	288.53	.311	59.70	.064
1876.....	80.57	.087	51.64	.056	47.48	.051	284.31	.307	60.17	.065
1877.....	79.15	.085	52.56	.057	42.08	.045	237.41	.256	58.17	.063
1878.....	77.99	.084	54.36	.059	38.50	.042	223.23	.241	57.51	.062
1879.....	70.34	.076	52.55	.057	35.56	.038	258.24	.279	47.35	.051
1880.....	75.60	.082	66.40	.072	38.79	.042	236.62	.255	45.57	.049
1881.....	73.40	.079	58.32	.063	37.19	.040	226.07	.244	53.12	.057
1882.....	78.54	.085	53.47	.058	48.06	.052	222.79	.241	62.93	.068
1883.....	80.56	.087	54.66	.059	56.42	.061	212.42	.229	67.06	.072
1884.....	77.09	.083	55.99	.060	49.69	.054	215.31	.232	55.81	.060
1885.....	77.16	.083	49.66	.054	40.59	.044	205.64	.222	46.66	.050
1886.....	75.46	.081	56.13	.061	44.46	.048	202.13	.218	40.79	.044
1887.....	74.20	.080	58.43	.063	45.65	.049	176.80	.191	39.09	.042
1888.....	78.09	.084	57.49	.062	47.83	.052	205.45	.222	37.47	.042
1889.....	83.02	.090	51.71	.056	57.06	.062	204.34	.221	38.57	.040
1890.....	79.01	.085	65.31	.071	55.28	.060	198.47	.214	32.85	.035
1891.....	78.94	.085	55.75	.060	44.71	.048	214.74	.232	39.30	.042

EXHIBIT A.—Import prices of 80 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.

Year.	166. Wax.		167. Whale and fish bone.		168. Spermaceti.		169. Wine.		170. Wine, excluding champagne.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	245.36	\$0.265	395.32	\$0.427	397.62	\$0.429	47.34	\$0.051	39.73	\$0.043
1851.....	279.72	.302	347.12	.375	485.79	.524	41.05	.044	33.78	.036
1852.....	263.13	.284	543.09	.586	390.00	.421	44.00	.048	36.69	.040
1853.....	278.62	.301	361.55	.390	340.93	.368	49.78	.054	43.96	.047
1854.....	264.08	.285	409.69	.442	314.81	.340	69.37	.075	63.58	.069
1855.....	252.07	.272	489.94	.529	315.60	.341	99.55	.107	87.82	.095
1856.....	275.83	.298	636.79	.687	437.27	.472	90.02	.097	80.80	.087
1857.....	268.73	.290	911.63	.984	466.03	.503	112.24	.121	103.30	.112
1858.....	257.40	.278	1,002.63	1.082	440.47	.476	74.95	.081	66.72	.072
1859.....	255.96	.276	876.08	.946	407.93	.440	59.57	.064	54.70	.059
1860.....	301.13	.325	824.53	.890	347.76	.375	79.42	.086	73.21	.079
1861.....	262.59	.283	753.73	.814	292.67	.316	80.93	.087	74.27	.080
1862.....	199.84	.216	736.26	.795	276.00	.298	71.01	.077	63.68	.069
1863.....	245.97	.266	1,029.86	1.112	251.79	.272	71.02	.077	63.52	.069
1864.....	326.98	.353	900.51	.972	227.47	.246	63.05	.068	57.27	.062
1865.....	272.38	.294	971.90	1.049	223.86	.242	62.64	.068	57.91	.063
1866.....	266.59	.288	1,063.92	1.149	268.12	.289	56.50	.061	51.57	.056
1867.....	324.18	.350	949.05	1.025	311.79	.337	65.68	.071	59.83	.065
1868.....	299.95	.324	675.95	.730	331.09	.357	68.71	.074	61.53	.066
1869.....	320.03	.345	883.67	.954	353.97	.382	63.16	.068	58.54	.063
1870.....	294.33	.318	774.96	.837	292.26	.316	57.93	.063	53.32	.058
1871.....	312.15	.337	766.04	.827	260.33	.281	63.73	.069	57.52	.062
1872.....	336.45	.363	1,073.09	1.158	265.26	.286	63.51	.069	57.45	.062
1873.....	266.02	.287	919.24	.992	231.93	.250	71.82	.078	66.99	.072
1874.....	273.83	.296	926.31	1.000	230.63	.249	84.60	.091	80.18	.087
1875.....	249.85	.270	1,061.85	1.146	248.91	.269	67.72	.073	64.54	.070
1876.....	219.01	.236	1,157.72	1.250	248.68	.268	66.27	.072	62.52	.067
1877.....	184.41	.199	1,217.79	1.315	258.56	.279	79.49	.086	75.03	.081
1878.....	218.31	.236	1,593.89	1.721	245.94	.266	84.04	.091	79.89	.086
1879.....	185.78	.201	1,002.89	1.083	223.18	.241	81.52	.088	77.94	.084
1880.....	175.23	.189	1,689.26	1.824	210.02	.227	91.60	.099	86.10	.093
1881.....	181.87	.196	1,298.37	1.402	186.55	.201	94.00	.101	88.78	.096
1882.....	147.62	.159	1,428.06	1.542	163.86	.177	88.83	.096	82.71	.089
1883.....	179.51	.194	1,770.41	1.911	172.59	.186	91.08	.098	83.73	.090
1884.....	167.62	.181	1,926.06	2.079	196.21	.212	78.74	.085	73.00	.079
1885.....	154.88	.167	1,252.67	1.352	128.94	.139	79.07	.085	74.51	.080
1886.....	133.86	.145	1,186.86	1.281	95.50	.103	76.57	.083	71.84	.078
1887.....	146.42	.158	2,055.18	2.219	97.12	.105	78.94	.085	74.90	.081
1888.....	151.23	.163	1,450.14	1.566	90.78	.098	79.18	.085	75.95	.082
1889.....	132.56	.143	1,522.16	1.643	89.22	.096	84.02	.091	80.07	.086
1890.....	134.59	.145	1,373.23	1.482	85.42	.092	90.49	.098	86.17	.093
1891.....	141.45	.153	1,946.71	2.102	100.17	.108	87.79	.095	82.50	.089

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Continued.*

Year.	171. Cham- pagne.		172. Wine, French.		173. Wine, Por- tuguese.		174. Wine, Spanish.		175. Wheat.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.
	<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>		<i>Marks.</i>	
1850.....	300.42	\$0.324	30.95	\$0.033	89.56	\$0.097	40.44	\$0.044	15.22	\$0.986
1851.....	309.68	.334	26.88	.029	83.78	.090	49.60	.054	16.08	1.042
1852.....	298.45	.322	27.69	.030	83.14	.090	49.29	.053	15.36	.995
1853.....	309.49	.334	36.41	.039	102.18	.110	54.62	.059	20.51	1.329
1854.....	308.62	.333	53.16	.057	122.62	.132	62.07	.067	27.55	1.785
1855.....	319.48	.345	74.21	.080	139.27	.150	72.03	.078	31.01	2.009
1856.....	322.59	.348	63.37	.068	189.10	.204	86.50	.093	23.90	1.548
1857.....	352.53	.381	77.01	.083	199.15	.215	110.51	.119	19.79	1.282
1858.....	337.11	.364	53.97	.058	206.90	.223	97.00	.105	19.40	1.257
1859.....	335.04	.362	42.60	.046	188.62	.204	73.97	.080	18.99	1.230
1860.....	337.65	.365	59.35	.064	198.24	.214	85.36	.092	22.50	1.457
1861.....	324.78	.351	62.89	.068	214.72	.232	89.78	.097	24.72	1.601
1862.....	334.28	.361	56.17	.061	193.89	.209	60.72	.066	21.94	1.421
1863.....	339.63	.367	52.11	.056	263.61	.285	102.09	.110	20.18	1.307
1864.....	331.47	.358	41.79	.045	198.51	.214	85.05	.092	17.17	1.112
1865.....	335.47	.362	47.65	.051	194.45	.210	82.56	.089	18.81	1.218
1866.....	365.23	.394	39.46	.043	186.36	.201	95.62	.103	21.05	1.363
1867.....	376.09	.406	47.25	.051	186.30	.201	93.85	.101	24.33	1.576
1868.....	352.75	.381	51.23	.055	194.64	.210	88.50	.096	25.78	1.670
1869.....	354.73	.383	49.71	.054	122.59	.132	82.97	.090	21.11	1.367
1870.....	354.01	.382	42.92	.046	151.20	.163	64.44	.070	20.61	1.335
1871.....	368.07	.397	48.66	.053	182.18	.197	76.69	.083	24.10	1.561
1872.....	380.74	.411	57.22	.062	161.11	.174	70.62	.076	24.16	1.565
1873.....	381.97	.412	64.08	.069	151.73	.164	61.10	.066	25.24	1.635
1874.....	397.25	.429	76.33	.082	168.37	.182	69.75	.075	24.28	1.573
1875.....	390.08	.421	59.97	.065	158.04	.171	67.86	.073	20.17	1.306
1876.....	378.28	.408	56.21	.061	148.03	.160	71.42	.077	20.57	1.332
1877.....	391.81	.423	70.63	.076	150.86	.163	67.91	.073	23.08	1.495
1878.....	370.30	.400	77.53	.084	159.79	.173	72.25	.078	18.92	1.226
1879.....	376.69	.407	75.40	.081	160.88	.174	70.18	.076	21.77	1.410
1880.....	393.94	.425	92.30	.100	167.83	.181	64.98	.070	21.21	1.374
1881.....	415.47	.449	91.96	.099	142.62	.154	70.50	.076	21.37	1.384
1882.....	403.59	.436	79.77	.086	124.69	.135	74.17	.080	19.91	1.290
1883.....	419.52	.453	83.32	.090	114.52	.124	76.74	.083	18.17	1.177
1884.....	389.95	.421	66.56	.072	118.68	.128	71.96	.078	16.54	1.071
1885.....	387.13	.418	70.41	.076	113.97	.123	69.32	.075	14.85	.962
1886.....	370.96	.400	73.25	.079	86.96	.094	63.13	.068	14.85	.962
1887.....	375.33	.405	73.28	.079	107.69	.116	64.91	.070	14.98	.970
1888.....	368.95	.398	75.20	.081	122.72	.132	65.30	.070	14.42	.934
1889.....	413.82	.447	73.86	.080	121.02	.131	88.97	.096	14.29	.926
1890.....	415.05	.448	84.53	.091	122.11	.132	92.80	.100	14.80	.959
1891.....	440.82	.476	88.63	.096	116.81	.126	73.59	.070	18.46	1.196

EXHIBIT A.—Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures—Concluded.

Year.	176. Wool, sheep and lamb.		177. Wool, shoddy.		178. Tartar of wine, crude.		179. Tartar of wine, pure.		180. Tin.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		Marks.		Marks.		Marks.		Marks.	
1850.....	284.65	\$0.307	-----	-----	79.34	\$0.086	137.40	\$0.148	151.16	\$0.163
1851.....	297.00	.321	-----	-----	86.70	.094	130.13	.140	159.74	.172
1852.....	241.14	.260	-----	-----	76.99	.083	125.24	.135	172.55	.186
1853.....	237.16	.256	-----	-----	88.93	.096	189.61	.205	244.81½	.264
1854.....	279.46	.302	40.00	\$0.043	150.45	.162	245.59	.265	235.11	.254
1855.....	277.28	.299	27.27	.029	157.43	.170	216.09	.233	230.93	.249
1856.....	313.11	.338	28.75	.031	155.30	.168	220.43	.238	266.18	.287
1857.....	355.73	.384	25.00	.027	119.88	.129	216.73	.234	298.25	.322
1858.....	208.54	.225	80.45	.087	108.20	.117	214.07	.231	245.26	.265
1859.....	263.27	.284	56.57	.061	114.84	.124	252.81	.273	273.64	.295
1860.....	323.14	.349	119.43	.129	131.65	.142	274.22	.296	278.59	.301
1861.....	259.25	.280	131.34	.142	136.27	.147	256.48	.277	244.55	.264
1862.....	250.09	.270	153.79	.166	135.46	.146	241.47	.261	244.32	.264
1863.....	281.42	.307	132.25	.143	134.60	.145	222.03	.240	260.61	.281
1864.....	281.08	.303	131.03	.141	139.59	.151	215.65	.233	224.14	.242
1865.....	313.49	.338	127.10	.137	120.20	.130	204.56	.221	198.43	.214
1866.....	283.09	.306	134.74	.145	109.84	.119	182.06	.197	178.18	.192
1867.....	259.25	.280	108.08	.117	109.92	.119	163.31	.176	186.11	.201
1868.....	307.10	.332	104.59	.113	112.38	.121	157.23	.170	192.73	.208
1869.....	287.95	.311	92.39	.100	90.33	.098	178.38	.193	249.70	.270
1870.....	307.22	.332	91.98	.099	86.00	.093	176.99	.191	257.67	.278
1871.....	298.11	.322	102.55	.111	101.58	.110	198.33	.214	276.79	.299
1872.....	419.63	.453	122.26	.132	176.53	.191	229.16	.247	311.76	.337
1873.....	381.14	.411	118.84	.128	142.23	.154	233.71	.252	298.14	.322
1874.....	319.14	.345	172.08	.186	144.54	.156	235.58	.254	212.87	.230
1875.....	329.26	.355	192.48	.218	160.93	.174	233.11	.252	198.83	.215
1876.....	275.70	.298	177.35	.191	163.04	.176	221.86	.240	184.55	.199
1877.....	292.41	.316	125.90	.136	161.33	.174	215.55	.233	163.71	.177
1878.....	297.00	.321	130.11	.140	145.88	.157	211.35	.228	145.62	.157
1879.....	310.47	.335	154.40	.167	145.37	.157	217.39	.235	146.30	.158
1880.....	296.01	.320	228.72	.247	164.74	.178	243.84	.263	177.88	.192
1881.....	288.38	.311	214.39	.231	157.34	.170	237.63	.257	187.76	.203
1882.....	262.26	.283	200.29	.216	163.58	.177	234.44	.253	200.26	.216
1883.....	244.08	.263	193.50	.209	173.77	.188	266.13	.287	200.54	.216
1884.....	198.47	.214	117.70	.127	181.69	.196	219.38	.237	184.49	.199
1885.....	202.10	.218	126.80	.137	178.57	.193	243.47	.263	170.24	.184
1886.....	185.68	.200	80.14	.087	187.55	.202	234.24	.253	172.52	.186
1887.....	183.52	.198	91.57	.099	174.13	.188	231.85	.250	188.42	.203
1888.....	151.99	.164	91.15	.098	158.12	.171	189.35	.204	213.22	.230
1889.....	165.90	.179	82.41	.089	124.79	.135	170.78	.184	184.27	.199
1890.....	175.01	.189	104.17	.112	119.26	.129	155.90	.168	177.20	.191
1891.....	170.34	.184	104.54	.113	120.25	.130	181.40	.196	174.21	.188

APPENDIX B.

REPORT OF THE COMMISSIONER OF LABOR.

DEPARTMENT OF LABOR,
Washington, D. C., August 19, 1892.

DEAR SIR: I have the honor to forward herewith the original data collected by this Department relative to rates of wages and prices of commodities covering the period from 1840 to 1891, inclusive, with the tabulated results and tabulations of data collected by the experts employed directly by your committee.

The larger part of this material has been transmitted to your committee from time to time as completed, but with this letter the final tables are handed you.

The wholesale prices of commodities for 52 years are, as a rule, the prices at which such commodities were sold at first hands, that is, by producers, and the prices have been taken, except where noted to the contrary, from actual sales.

The rates of wages for 52 years, with the exception of those for the coal, iron, glass, and pottery industries, were collected by this Department from actual payrolls.

The following is a list of the tables herewith transmitted to you:

- X.—Wholesale prices of farm products for 52 years.
- XI.—Wholesale prices of commodities for 52 years.
- XII.—Rates of wages for 52 years.
- XIII.—Rates of wages for 52 years in the coal, iron, glass, and pottery industries.
- XIV.—Teachers' salaries for 52 years.
- XV.—Prices paid by the Bureau of Provisions and Clothing (Navy Department), 1840-'92.
- XVI.—Prices paid by the Office of the Quartermaster General (War Department), 1840-'91.
- XVII.—Prices paid by the Office of the Surgeon General (War Department), 1840-'91.
- XVIII.—Prices paid by the Office of the Commissary General of Subsistence (War Department), 1840-'91.
- XIX.—Prices paid by the Office of Indian Affairs, 1877-'92. Clothing, etc.
- XX.—Prices paid by the Office of Indian Affairs, 1877-'92. Food, etc.

The facts comprehended in Table X, wholesale prices of farm products for 52 years, were collected for your committee under the direction of Col. J. R. Dodge, Statistician of the Department of Agriculture. Those comprehended in Table XI, wholesale prices of commodities for 52 years, were collected in the main by this Department through its corps of agents and experts. In some cases experts employed directly by the committee furnished the data for the tabulation. The facts for Table XII, rates of wages for 52 years, were collected entirely by this Department. Those for Table XIII, rates of wages for 52 years in the coal, iron, glass, and pottery industries, were collected for your commit-

tee, directly under your supervision, by Joseph D. Weeks, esq., of Pittsburgh. The data from which Table XIV, teachers' salaries for 52 years, has been constructed, were furnished by the Bureau of Education, under the direction of Hon. William T. Harris, Commissioner of Education. The facts for all the other tables, from XV to XX, inclusive, were obtained from the bureaus named in the titles of said tables, through the courtesy of the heads of the Departments to which such bureaus belong, and with the hearty and cordial assistance of the chiefs of the bureaus.

All the facts shown in the tables transmitted herewith have been collected and tabulated with the same care that was exercised in securing and tabulating the data relating to the retail prices referred to in my letter of July 15, 1892, and as printed in the report of your committee, being report 986 of the Senate. I need not, therefore, repeat the statements made therein.

There will be transmitted later on a table showing wholesale prices for 52 years of some additional commodities, with two supplementary tables which complete the series of prices and wages of Tables XI and XII to October 1892.

The following is a list of the new tables to be transmitted:

XXI.—Additional wholesale prices of commodities for 52 years.

XXII.—Wholesale prices of commodities in October 1891, and October 1892.

XXIII.—Rates of wages in July 1891, and October 1892.

It is a pleasure to renew my acknowledgments to Mr. Oren W. Weaver, the chief clerk of this Department, and Mr. G. W. W. Hanger, statistical expert, for their valuable assistance in carrying out the wishes of your committee.

I am, very respectfully, your obedient servant,

CARROLL D. WRIGHT,
Commissioner of Labor.

Hon. NELSON W. ALDRICH,
*Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.*

APPENDIX C.

REPORT OF THE STATISTICIAN, DEPARTMENT OF AGRICULTURE.

U. S. DEPARTMENT OF AGRICULTURE,
DIVISION OF STATISTICS,
Washington, D. C., September 5, 1892.

SIR: In accordance with the request of your committee, an investigation has been made of prices of certain principal farm products, in representative commercial cities, the results of which have been duly presented to you. The requirement was for quarterly quotations in each year since 1840, to show the course of prices for half a century.

The cities selected were New York, Cincinnati, and Chicago. It was understood, as to the latter, which has had most of its growth, and nearly all of its business development, during the past twenty years, that it would be difficult to complete the earlier quotations satisfactorily; and a similar defect in the results of the first decade of the inquiry in Cincinnati was expected. Indeed, it was not an easy task, even in New York, to secure average prices for the same quality and kind of product, before the organization of authoritative boards for the regulation of classifications and the systematic record of daily transactions.

The following list selected, including such staple products as might admit of classification and averaging, was suggested. It was recognized that fruits and vegetables, variable in quality and diverse in variety, and so perishable that values depend upon relative freshness, could not be quoted with any promise of a useful analysis. So with many other minor products of the farm, of very unequal local distribution, and peculiarly subject to vicissitudes of the seasons, causing fluctuations militating against any satisfactory comparison of prices. It is sufficiently difficult, as to staple products, to find an unchanging basis of comparison. The following products are included in the list:

Animals for slaughter:

- Beeves, per 100 pounds, live weight.
- Sheep, per 100 pounds, live weight.
- Lambs, per 100 pounds, live weight.
- Swine, per 100 pounds, live weight.

Hides, raw, per pound.

Corn, No. 2, per bushel.

Wheat, No. 2, per bushel.

Oats, No. 2, per bushel.

Rye, per bushel.

Barley, per bushel.

Clover seed, per bushel.

Flaxseed, per bushel.

Timothy seed, per bushel.

Hemp, per ton.

Cotton, middling, per pound.

The quotations were made from the records of commercial bodies, under the direction, as far as possible, of the responsible officers of those organizations. The Produce Exchange of New York, the New York Cotton Exchange, the Chamber of Commerce of Cincinnati, and the Board of Trade of Chicago furnished all needed facilities for the prosecution of the work for the periods covered by their systematic records; and prior to their initial dates recourse was had to the regular price-records in the principal newspapers of the time, books of old mercantile firms and all available means of obtaining just and discriminating views of prices.

The local work in New York was under the immediate direction of Hon. Alonso Bell, formerly Assistant Secretary of the U. S. Department of the Interior; in Cincinnati was conducted by Superintendent Charles B. Murray, the executive officer of the Chamber of Commerce; and in Chicago was directed by Mr. B. Frank Howard, editor of the Chicago Daily Trade Bulletin.

In certain products the grades are so diverse in kind and quality, or have been on the market for so short a period, that breaks must necessarily occur in this record of a half century. In view of these and other difficulties in fixing a uniform basis for a continuous comparison, it is believed that the results of the investigation have been highly successful, furnishing the most reliable record of prices available for this important period in the history of the agricultural production of the United States.

Very respectfully,

J. R. DODGE,
Statistician.

Hon. NELSON W. ALDRICH,
*Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.*

APPENDIX D.

REPORT OF THE COMMISSIONER OF EDUCATION.

DEPARTMENT OF THE INTERIOR,
BUREAU OF EDUCATION,
Washington, D. C., August 17, 1892.

SIR: I beg leave to submit herewith some figures showing comparative rates of wages for teachers for the past 50 years. For this purpose I have selected the cities of Boston, Baltimore, Cincinnati, and St. Louis, partly for the reason that these cities serve as an index for wages in different parts of the United States, and partly for the reason that records of salaries extending back a half century are easily accessible in these cases.

I have also added some statistics of the rural districts of Massachusetts. Statistics are not accessible for the rural districts of other parts of the Union so far as I know. The counties of Barnstable and Franklin contain no cities or large villages, and the summaries given will show approximately how wages have been running in rural districts for the past 50 years. In extending these statistics to other parts of the country by way of a basis of estimate, one must remember that the wages of teachers in Massachusetts have kept ahead of the rest of the country by nearly twenty-five per cent; that is to say, while in Boston the wages of the masters of grammar schools have risen to \$2,880 per annum, the salaries in the other cities of same grade of teachers have risen to \$2,200 as a maximum. Perhaps one may say that it is safer to allow 40 per cent than 25 per cent.

Very respectfully,

W. T. HARRIS,
Commissioner.

Hon. NELSON W. ALDRICH,
*Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.*

APPENDIX E.

REPORT OF MR. S. N. D. NORTH.

NATIONAL ASSOCIATION OF WOOL MANUFACTURERS.

Office, 70 Kilby Street, Boston, Mass., June 6, 1892.

DEAR SIR: In accordance with the request of the sub-committee of the Finance Committee of the Senate, I have devoted a large part of my time, for several months past, to the work of securing yearly quotations of the market prices of the different varieties of woollen goods (exclusive of carpets), to be used by the committee in its investigation of the course of prices during the last fifty years. I have made use of the blanks prepared for that purpose by the Department of Labor, and have carefully observed all the rules and methods adopted by the committee. I have addressed personally, or by letter, or through the agents of the Department of Labor, more than 200 woollen manufacturers located in different sections of the country, confining my applications for data chiefly to mills that have been long in existence, and whose goods are known in the market as standard. I have received at the hands of all of them the most courteous response, and encountered a cheerful readiness to do everything in their power to aid the committee in its work.

Nevertheless, the results are extremely disappointing and unsatisfactory, probably more so than will be encountered by the committee in any other branch of its inquiry. This is due to certain recognized and unavoidable limitations, not elsewhere existing, the nature and effect of which it is proper to explain in detail, for they have an important bearing upon any conclusions the committee may seek to draw from the limited number of price lists that have been secured.

The difficulty is due, primarily, to the fact that in every variety of woollen goods the characteristics of the fabric undergo constant changes so fundamental as to make it no longer the same fabric, except perhaps in name, and no longer an article the price of which in one year is properly comparable with its price in another.

The decrees of fashion compel more frequent modifications in pattern, in weave, in texture, and in material, in woollen goods, than in any other line of manufactures.

The variations in the raw material are so great that very few mills manufacture the identical goods from year to year for a period of years long enough to answer the purposes of the committee.

In both respects the wool manufacture differs from every other textile industry, and the standards of comparison, applicable to others, can not be applied to it. In cotton goods a print cloth made of No. 28 and No. 36 yarns, in 1860, is identical with a print cloth made of the same yarns in 1890. You can find no parallel to that illustration in woollen

goods, for while weave, weight, picks, etc., may remain the same in a flannel there have occurred variations in the wool supply in the interval sufficient to justify the claim that while nominally the same fabric at both periods, it is not actually identical. Cotton is the same fiber at all times, with but two or three well defined varieties. Silk is uniform everywhere, and at all times. But wool differs in condition and characteristics every year, and from every locality, and the different breeds, grades, sorts, and varieties accessible to the manufacturer are innumerable. As a matter of fact, all wool manufacturers are constantly changing the sources from which they draw their raw material.

This variation in the raw material is more fully explained in the letter of Mauger & Avery, accompanying their tables of the prices of foreign and domestic wools, and they have found it exceedingly difficult to present satisfactory comparisons because of it. Australasian wool was not known or used to any extent in this country prior to about 1870, and we are now consuming about 26,000,000 pounds annually. Up to the tariff of 1867 we were consuming mestiza or South American clothing wool very largely in our fabrics for popular wear. Since that date we have used practically none of this wool. In the interval, also, has grown up that immense source of the domestic supply, commonly called "Territorial," coming from west of the Mississippi River, and possessing characteristics essentially different from the wools of the Middle and Eastern States, which were formerly chiefly relied upon.

Again, the substitution of merino or clothing wool for the long combing wools (class 2 in the tariff classification), which were exclusively used in the worsted manufacture prior to about 1873, made possible by the improvement in combing machinery, has effected another revolution in the manufacture.

All these variations in material have involved essential variations in fabrics so radical as to render comparisons in prices in most instances statistically impossible.

Again, the use of substitutes for wool is of comparatively modern origin, and it has given birth to a new line of fabrics, unknown to our ancestors, possessing many qualities which commend them to popular use, and permitting poor people to clothe themselves satisfactorily and even handsomely at a cost much less than was formerly possible.

The best illustration of the latter is the case of satinets, a fabric still widely worn, as it was in the early days of the Republic, but no longer made by the same processes or of the same materials, and no longer therefore a fabric which it is proper or even possible to compare with itself in any effort to trace the course of prices.

It has been found impossible to obtain any line of quotations which will indicate the effect upon prices of the improved machinery in the manufacture of shoddy and the kindred species of renovated wool, and in the utilization of the wastes engendered by machine manufacture, which were formerly lost. The cloths thus made differ so radically in their constituents from year to year, that after most diligent inquiry I have not discovered a single mill whose make, for any length of time, has been sufficiently uniform to permit of a comparison of prices.

Again, the use of cotton, in admixture with wool, has had a powerful influence in reducing the cost of clothing. It is true that the cotton warp, with a wool filling, as a combination for the cheaper grades of men's wear cloths, is as old as the country itself. The records of the census of 1820 reveal the fact that the majority of the mills then employed in the manufacture of woollen goods were engaged in the manu-

facture of these mixed goods, commonly called satinets, and already referred to. It is true, also, that in the earlier days the men, as well as the women, were clad very largely in all cotton garments, such as corduroys and jeans, to which they were compelled by the high prices of wool. Such goods are now almost obsolete, and the people are in consequence much more warmly and healthily clad than formerly. In addition to the cotton warp, cotton is now spun with wool, into a yarn known as merino, and permitting a much cheaper fabric, possessing some at least of the virtues of woollen garments.

These are all changes in the methods of fabrication, having a most important bearing upon an investigation of this character, the influence of which upon prices it is unfortunately impossible to statistically present, for the reason already stated—the impossibility of obtaining any uniform standard of comparison.

It is beyond denial that there has been a very great cheapening of clothing to the people of the United States in the last fifty years, effected by changing the character of fabrics, which changes place all fabrics to which they apply, outside the limits of the investigation of the committee. In which the most important reductions in prices, effected by producing new and cheaper fabrics which answer all the purposes of those they supercede, must be entirely lost sight of. Shut out from considering all reductions in price which involve any modification in the character of the cloth, the committee is necessarily deprived of the most important data, and in fact the only true data, for determining the relative cost of clothing at two periods at all remote from each other.

The influence of these changes in the methods of fabrication has been particularly noticeable in fabrics for women's wear, in which the introduction of the cotton warp is of comparatively recent origin.

So marked have been the changes above referred to, in the manufacture of woollen goods, that as a result of inquiries carried on among more than 200 mills, it has been possible to find not more than a score which have made goods of a character so uniformly identical as to permit of satisfactory quotations of prices for any considerable number of years. Either by changes in the weight or width of the goods, by the use of a different number or count of yarn or a different grade of stock in its preparation, or a change in the number of picks, or a modification of the finish, the goods are no longer the same as they were ten, twenty, or more years ago.

The Pacific Mills, one of the largest of our establishments for the manufacture of ladies' dress goods, stated that they are not manufacturing to-day a single fabric which they made ten years ago or one so nearly identical with any fabric made prior to that date, that quotations of prices could be accepted as indicating the value of the same article from year to year. As to their present production, they stated that better fabrics than were formerly made are being constantly put upon the market at lower prices than the nearest corresponding grade of dress goods commanded at the time of their manufacture.

The Arlington Mills reported the same variations in their fabrics of similar character. A particular instance is given by this mill, that of black alpacas, mohairs, and brilliantines, a class of dress fabrics not undertaken in this country until 1872, in whose manufacture this mill achieved a remarkable success, which continued until the change of fashion led to their entire abandonment, and nothing is now manufactured in this mill which admits of any comparison in prices.

It thus happens that it is impossible to carry on a single line of

quotations in woollen goods, from among the numbers of quotations which are contained in the annual report of the Secretary of the Treasury, Hon. W. M. Meredith, in 1849.

The introduction of the domestic manufacture of worsted goods for men's wear, which dates from about the year 1869, has increased the difficulties of such a comparison, for it has effected something in the nature of a revolution in the manufacture. Woollen and worsted goods are now manufactured in nearly equal proportions for men's clothing, and they differ so radically in manufacture, and have acted and reacted upon each other in such a way as to frequently introduce abnormal conditions.

I may illustrate the effect of all these changes by the case of broadcloths. Fifty years ago this fabric was very widely worn, and a great majority of the mills were engaged in its manufacture. To-day it is hardly worn at all, and the single mill which now makes it, for special and limited purposes, employs most of its machinery upon other fabrics. This mill, the Slater Company, at Webster, Mass., has furnished quotations for the whole period, which show a reduction in the price of the first quality of black broadcloth made from XXX wool from \$3.15, in 1840, to \$1.97, in 1891, but the price reported for 1891 is identical with that reported for 1860. There being no longer any competition in these goods and no popular use for them, and an extremely limited production, the manufacturers are able to make and keep their prices from year to year, and they thus afford no criterion by which to judge of the general course of prices in woollen goods. To include them in ascertaining a general average would be to destroy the value of that average. Such an average must be based upon goods which continue in popular use and are thus subject to the ordinary laws of competition.

I find upon consultation with manufacturers who were engaged in the practical manufacture of woollen goods before the war, that their general judgment is that prices will now average about 25 per cent less than in 1860. This judgment is based upon the general knowledge they have from their books of the course of prices rather than upon calculations which are made from the prices obtained for any particular fabric. In calculating this reduction, they include the less favorable terms they are now able to obtain, of which it is impossible to take cognizance in a statistical investigation. The present terms in the woollen trade are exceedingly trying. The abuse of "dating ahead" is carried to such an excess that the manufacturer, in most instances, actually begins his production for the year to come before he has received his money for the production of the previous year. The extension of credits is of course equivalent to a reduction in price, but it can not be indicated in market quotations.

With this reduction in prices the perfection of machinery has had much to do, but it is not possible to indicate how much. The most radical improvements in woollen machinery, outside the worsted industry, were generally in vogue prior to the war. But subsequent modifications have materially increased its efficiency. The woollen card is now made with wider cylinders, and feeders and other attachments have increased its capacity with a diminution of the labor required to operate. In spinning machinery the old fashioned hand jack is now superseded by the automatic mule. In almost all American woollen mills spinning continued to be done on the hand jack down to the close of the civil war, and it may still be found in a number of the smaller mills. The hand jack usually carries 240 spindles, mules carry 300 or more spindles, and the economical gain in production as well as in the saving of

labor, is very great. The increase in production has been estimated as high as 30 per cent and the decreased cost of spinning as high as 50 per cent on the same wage basis.

Up to 1857 broad looms were run at about 45 picks per minute. In that year the Cromptons placed on the market a fancy loom, with 24 harness capacity, operating at a speed of 85 picks per minute, and no subsequent advance in weaving apparatus has been so great. Broad looms are run at the present time at 90 to 95 picks per minute, and in some instances 100 to 105. Other improvements, such as stop motions, power pick-finding devices, etc., enable a larger production from looms than the difference in speed would indicate, but it is impossible to say what the percentage of gain is. Narrow looms, except for pattern work, have not been manufactured to any extent since 1870. There have been improvements in finishing machinery also, but not equal to those in weaving.

To offset the gain in the efficiency of machinery has come the great increase in the wages of operatives since 1860—an increase which is variously estimated at from 50 to 75 per cent, and the exact average of which increase it is to be hoped your investigation will be able to determine. While a much smaller number of operators will produce a given amount of product, as compared with 1860, it seems probable that the payroll, to produce it, will be about the same in amount as then.

The main decrease in the cost of woollen goods must therefore be attributed to the decline in the prices of the raw material, and to the closer margins on which goods are sold.

The difference in the domestic price of wool, in 1891, as compared with 1860, is difficult to determine, owing to the great change in the condition of domestic fleeces as marketed. Ohio fine wool, the average price of which for 1859, 1860, and 1861 was $52\frac{1}{3}$ cents, (according to Manger & Avery's tables, Appendix F,) yielded at that time from 52 @ 60 per cent in scoured condition. The average price in the same wool in 1889, 1890, and 1891 was $32\frac{5}{8}$ cents, but its average yield to-day is but 44 @ 48 per cent.

It therefore seems safe to say that the decline in the prices of home-made manufactured goods has been greater than the decline in the prices of the domestic raw material.

Respectfully submitted.

S. N. D. NORTH,
Secretary.

Hon. NELSON W. ALDRICH,
*Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.*

APPENDIX F.

REPORT OF MESSRS. MAUGER AND AVERY.

BOSTON, MASS., *June 6, 1892.*

DEAR SIR: In accordance with the request of the finance committee, we have prepared the inclosed table showing the average price of American wool in Boston, taking the scoured value of fine Ohio fleece wool as a basis, and the price in London of average Australian fleece, scoured, in each year since 1850.

It was not possible to carry this table back to 1840, as requested by you. These earlier figures, if accessible, would be valueless for comparative purposes, because the Australian wool clip was not so important a factor in the London wool market prior to 1850, in which year the total production of this wool had only reached 39,000,000 pounds.

It is proper to state that the chief foreign supply in the United States of merino wools between 1840 and 1850, and for many years after, were those of the Cape of Good Hope, and the South American mestiza. These were, however, mainly consumed by a few of the manufacturers of felts, broadcloths, and flannels, and did not compete to any great extent with American fleeces. The imports from South America in 1845 were 12,278,787 pounds, while the total imports of foreign wool in that year were only 23,896,294 pounds, including carpet wools. Trustworthy quotations of the mestiza wools for the whole of this period are not obtainable.

Comparisons between the prices of Ohio fine wool and the corresponding grade of Australian wool cannot properly be made in the earlier years of this table, and have but little significance, and therefore should not be attempted, although we have supplied the figures in accordance with your request.

Such a comparison between Ohio and Australian wools cannot properly be made prior to 1879; for the premium on gold, from 1861 to that year, introduces an element of uncertainty in the calculation which still further disturbs accuracy. Until the year 1872 the American imports of Australian wool were very small. In that year the importations direct jumped suddenly to 12,748,548 pounds, never having reached one million pounds per annum prior to that date. On account of the discriminating duty of 10 per cent on imports east of the Cape of Good Hope when imported from Europe, these wools were all imported direct up to and including that year, when the extra duty was repealed.

This large importation of 1872 introduced the Australian wools for the first time in quantities to American manufacturers. Again in 1879 and 1880, these wools were imported very largely, and began to be more generally popular with American manufacturers, who found that a percentage of Australian wool was required to produce the "feel" of the foreign goods they were struggling to compete against.

Therefore the most that can be said respecting the earlier years of these tables is that the price of wool, calculated on the value of the scoured pound, was higher in the United States than in London by from 30 per cent to 85 per cent from 1850 to 1857, or an average considerably in excess of the duty of 30 per cent which prevailed during those years—a fact explained by the limited knowledge and restricted use of foreign wool in this country, and the wholly insufficient domestic supply—a supply which prior to 1860 never exceeded 60,000,000 pounds per annum, according to the estimate of the Department of Agriculture.

As the colonial wool clip has increased with accelerating rapidity, and the immense product has been pushed into all the corners of the world, partially destroying the merino wool industry in France, Germany, and Spain, and becoming the standard of values not only for Europe, but the United States also, the London prices have fallen steadily, and the difference between these prices and those of the American clip has approached the point when it consists only of the duty on wool and the charges of transportation; and this difference is frequently less than the amount of duty and charges. That the clip of Australia increases so rapidly is evidence that in spite of declining values the business of wool growing must still continue to be profitable there.

The Australian wool grower has a climate particularly favorable for sheep raising; many of the “stations” have from 100,000 to 200,000 sheep, and we have heard of one concern owning over 500,000 sheep. Owing to the business methods and thorough system employed in putting up their wools, they can be shipped from Melbourne and sold in London at an expense of about one penny per pound—about the cost for freight on wool shipped from our far west to seaboard markets.

It is only possible to ascertain the relative cost of wool in the United States and England by reducing the wool to the scoured basis and measuring prices upon that basis.

The difference in the condition of Ohio fleece wool and Australian wool, as marketed, is so radical that any comparison of prices in the conditions marketed, means absolutely nothing, even as between wools almost identical in character for spinning purposes. Australian wools are skirted, while Ohio wools are sent to market as shorn from the sheep. Skirting removes the breech and other inferior portions of the fleece, enhancing the value of the remainder. Thus it happens that the shrinkage in the scouring of an unwashed Australian fleece is frequently less than the shrinkage of a washed Ohio fleece. The Ohio farmer who obtains the same nominal price for his wool that the corresponding Australian wool obtains in London, secures a price which is actually from six to ten cents higher, or by as much as the presence of skirtings may increase its shrinkage.

The condition of Ohio wools has been growing heavier of late years, correspondingly decreasing the yield when scoured, while the Australian wools have as steadily improved in condition. Port Philip fleece which formerly yielded about 40 per cent, now yields 45 per cent, while the yield of Ohio washed fleeces has been gradually decreasing. Formerly yielding 56 per cent, they now yield only about 45 per cent. Hence it happens that Ohio washed fleece is compared in this table with Australian wool in the grease.

The scoured value of Australian wool in London, as shown in column 10 of these tables, is not the result of a given percentage of shrinkage calculated upon the value of the greasy wool as given in either column 4 or column 5, but is a value determined by market quotations of

scoured wool, as recorded by Helmuth, Schwartze & Co. It may be taken as the equivalent London price of an American wool, the scoured value of which in Boston is given in column 2. This London value of the scoured pound varies not only with varied market conditions, but also with the condition of the wool.

The average shrinkage of all descriptions and grades of Australian wools sent to London is reckoned at about 58 per cent, but upon wools corresponding with Ohio fine it may be calculated at 55 per cent.

American purchases are confined to wools of the lightest shrinkage, on account of the duty, and these purchases will not average to shrink more than 50 to 53 per cent.

To determine the effect of the duty in enhancing the price of Ohio fine wool, as measured by the price of a like grade of Australasian wool in the London market, at the present time, a shrinkage of 55 per cent for each should be adopted in each case, as shown above. On this basis we have the following results for the year 1891:

Ohio fine washed fleece, costing $31\frac{3}{4}$ cents in 1891 and shrinking 55 per cent, averages to cost $70\frac{3}{4}$ cents per scoured pound.

Port Philip good average grease, costing in London in 1891, 20 cents, and also shrinking 55 per cent, averages to cost, in the United States, duty and charges paid, $72\frac{1}{4}$ cents, per scoured pound, as follows:

Wool	\$0. 20
Duty	. 11
Charges	. 0150
Cost	. 3250

Or $72\frac{1}{4}$ cents per scoured pound.

Cost in London, $44\frac{1}{2}$ cents per scoured pound.

The difference between $70\frac{3}{4}$ cents and $44\frac{1}{2}$ cents, or $26\frac{1}{4}$ cents, is the amount by which the price of Ohio fine scoured wool is enhanced because of the duty and charges. This, on fine Ohio, shrinkage 55 per cent, is equivalent to $11\frac{8}{10}$ cents in the washed condition.

As the price in London declines, the difference between the cost, scoured, of the imported Australian wool and Ohio washed fleece, lessens also.

Very respectfully,

MAUGER & AVERY.

Hon. NELSON W. ALDRICH,

Chairman Sub-committee on Tariff,

Committee on Finance, United States Senate.

TABLE A.—*Annual average prices of Ohio fine washed fleece, in Boston, and the same scoured; with the prices in London of several descriptions of competing fine foreign wools, 1850 to 1892.*

[This table was compiled by Messrs. Manger & Avery, Boston, Mass. The quotations for foreign wools were furnished by Messrs. Helmuth, Schwartze & Co., London, England. Information in regard to the shrinkage of Ohio wools was furnished by Mr. Robert Middleton, of the Globe Woollen Co., Utica, N. Y., and Mr. Joseph E. Dole, of the Harris Woollen Co., Woonsocket, R. I., from their own records. The United States tariff on wools of merino blood was as follows: From 1850 to July 1, 1857, 30 per cent; from July 1, 1857 to April 1, 1861, 24 per cent; from April 1, 1861 to July 1, 1864, 9 cents per pound; from July 1, 1864, to March 1867, over 12 cents, 6 cents per pound; over 24 cents, 10 cents per pound and 10 per cent; over 32 cents, 12 cents per pound and 10 per cent; from March 1867 to August 1, 1872, 32 cents or less, 10 cents per pound and 11 per cent; over 32 cents, 12 cents per pound and 10 per cent; from August 1, 1872 to March 3, 1875, tariff of March 1867, reduced 10 per cent; from March 3, 1875 to July 1, 1883, tariff of March 1867; from July 1, 1883 to October 6, 1890, 30 cents or less, 10 cents per pound; over 30 cents, 12 cents per pound; from October 6, 1890, 11 cents per pound.]

Year.	Ohio fine washed fleece.	Ohio fine fleece, scoured.	Port Philip (Australia) average fleece, washed.	Port Philip good average grease.	Adelaide (Australia) average grease.	Cape of Good Hope average fleece.	Buenos Ayres average grease.	Australian good, scoured.	Australian average, scoured.	Cape of Good Hope average, scoured.	Buenos Ayres average, scoured.	Estimated annual production of Australian wool in pounds.
1850.....	\$0.45 $\frac{3}{4}$	\$0.83 $\frac{1}{4}$	\$0.34	.....	\$0.15	\$0.26	.....	\$0.54	\$0.46	\$0.40	.....	39,000,000
1851.....	.47	.85 $\frac{1}{2}$	.34	.....	.15	.26 $\frac{1}{2}$	.....	.54	.46	.42	.....	42,000,000
1852.....	.45	.81 $\frac{3}{4}$	.39	.....	.18	.31	.....	.62	.56	.48	.....	43,000,000
1853.....	.58 $\frac{3}{4}$	1.07	.40	.....	.19	.31 $\frac{1}{2}$	.....	.66	.60	.50	.....	47,000,000
1854.....	.49 $\frac{1}{4}$	.91 $\frac{1}{4}$	.36	.....	.17 $\frac{1}{2}$	.28	.....	.58	.52	.44	.....	48,000,000
1855.....	.46 $\frac{1}{4}$	.85 $\frac{3}{4}$	.39	.....	.18 $\frac{1}{2}$	.32	.....	.62	.56	.50	.....	49,000,000
1856.....	.55 $\frac{1}{2}$	1.04 $\frac{3}{4}$	.46	.....	.22	.39	.....	.72	.66	.60	.....	52,000,000
1857.....	.53	1.02	.46	.....	.23	.38 $\frac{1}{2}$	.....	.74	.68	.60	.....	49,000,000
1858.....	.45 $\frac{1}{2}$	.82 $\frac{1}{2}$	.45	.....	.22	.36	.....	.70	.64	.56	.....	51,000,000
1859.....	.59	1.09 $\frac{1}{4}$	.47	.....	.23	.36	.....	.72	.66	.56	.....	54,000,000
1860.....	.54 $\frac{1}{4}$	1.02 $\frac{1}{2}$	.48	\$0.30	.24	.37 $\frac{1}{2}$	\$0.19	.76	.68	.60	\$0.62	60,000,000
1861.....	.43 $\frac{3}{4}$	.82 $\frac{3}{4}$	.44	.27	.21	.33 $\frac{1}{2}$	.16 $\frac{1}{2}$	.70	.60	.52	.56	70,000,000
1862.....	.50 $\frac{1}{2}$	.93 $\frac{3}{4}$	.44	.27	.21	.33	.16 $\frac{1}{4}$	.70	.60	.52	.56	72,000,000
1863.....	.78 $\frac{3}{4}$	1.51 $\frac{1}{2}$	.44	.26 $\frac{1}{2}$	.21 $\frac{1}{2}$	.34	.15 $\frac{1}{4}$	.70	.62	.54	.54	77,000,000
1864.....	.90 $\frac{1}{4}$	1.77	.46	.28 $\frac{1}{4}$	.22 $\frac{1}{2}$	.35	.15 $\frac{1}{4}$	.74	.64	.54	.51	99,000,000
1865.....	.83	1.66	.45	.27	.21 $\frac{1}{2}$	.32	.15	.70	.62	.50	.50	110,000,000
1866.....	.67	1.31 $\frac{1}{4}$	.47	.28	.23 $\frac{1}{2}$	.33	.15 $\frac{1}{2}$	.76	.68	.54	.51	115,000,000
1867.....	.57 $\frac{3}{4}$	1.13 $\frac{1}{4}$	.43	.24	.20	.28	.13 $\frac{3}{4}$	.68	.60	.44	.46	133,000,000
1868.....	.48	.88 $\frac{3}{4}$	.40	.22	.17 $\frac{1}{4}$	.25 $\frac{1}{2}$	.11 $\frac{3}{4}$	.64	.52	.40	.39	156,000,000
1869.....	.49	.90 $\frac{1}{2}$	.34	.19 $\frac{1}{2}$	.15	.20	.09 $\frac{3}{4}$	.54	.44	.34	.32	158,000,000
1870.....	.47 $\frac{1}{2}$	.89 $\frac{3}{4}$	.34	.19 $\frac{3}{4}$	.15 $\frac{1}{4}$	.22	.10 $\frac{3}{4}$	.54	.46	.38	.34	175,000,000
1871.....	.55 $\frac{1}{2}$	1.06 $\frac{3}{4}$	.42	.25	.20 $\frac{1}{4}$	.29 $\frac{1}{2}$	.13 $\frac{3}{4}$	.66	.58	.48	.45	183,000,000
1872.....	.72	1.56 $\frac{3}{4}$	.52	.31	.25 $\frac{1}{4}$	.35	.17 $\frac{3}{4}$	.82	.74	.58	.59	185,000,000
1873.....	.57 $\frac{1}{2}$	1.19 $\frac{3}{4}$	.50	.30 $\frac{1}{2}$	.23 $\frac{1}{2}$	.31	.14 $\frac{3}{4}$	.76	.68	.52	.50	192,000,000
1874.....	.55 $\frac{1}{4}$	1.15 $\frac{1}{4}$	.47	.29 $\frac{1}{2}$	.23	.32	.15 $\frac{1}{4}$	.74	.66	.54	.50	229,000,000
1875.....	.52 $\frac{1}{4}$	1.04 $\frac{1}{2}$	.44	.27	.21 $\frac{1}{4}$	.30	.15 $\frac{3}{4}$	.68	.60	.50	.53	248,000,000
1876.....	.44 $\frac{1}{4}$	.87	.40 $\frac{1}{2}$	.24 $\frac{1}{4}$	.18 $\frac{1}{4}$	.26	.13	.62	.54	.44	.44	267,000,000
1877.....	.47 $\frac{1}{4}$	.91	.40 $\frac{1}{2}$	.24 $\frac{1}{4}$	.18 $\frac{1}{4}$	.25	.12 $\frac{1}{2}$	.64	.54	.42	.42	284,000,000
1878.....	.38 $\frac{3}{4}$	.74 $\frac{3}{4}$	.40	.24	.18 $\frac{1}{4}$	.23 $\frac{1}{4}$	.12 $\frac{1}{2}$	.64	.54	.42	.42	278,000,000
1879.....	.36 $\frac{1}{2}$	.71 $\frac{3}{4}$	.37 $\frac{1}{2}$	.23 $\frac{1}{4}$	.17	.22 $\frac{1}{4}$	.12 $\frac{1}{2}$	.60	.52	.41	.42	288,000,000
1880.....	.49 $\frac{1}{4}$	1.02 $\frac{3}{4}$	.43	.27	.21 $\frac{1}{4}$	.25 $\frac{1}{4}$	.15 $\frac{1}{4}$	.68	.60	.46	.51	308,000,000
1881.....	.43	.95 $\frac{1}{2}$	.39	.24	.18 $\frac{1}{2}$	.22 $\frac{1}{2}$	.13 $\frac{3}{4}$	.60	.53	.42	.46	332,000,000
1882.....	.42 $\frac{1}{2}$	.90 $\frac{1}{2}$	.39 $\frac{1}{2}$	.25	.18	.23 $\frac{1}{4}$	.13 $\frac{1}{2}$	.60	.53	.42	.45	357,000,000
1883.....	.40 $\frac{1}{2}$	.86	.38	.24 $\frac{1}{4}$	.17	.22 $\frac{1}{2}$	.13 $\frac{1}{4}$	.59	.51	.40	.44	366,000,000
1884.....	.37	.80 $\frac{1}{2}$	.36 $\frac{1}{2}$	.23	.16 $\frac{1}{4}$	.20 $\frac{3}{4}$	.12 $\frac{1}{4}$	.56	.48	.38	.41	408,000,000
1885.....	.32 $\frac{3}{4}$	.71 $\frac{1}{4}$	.33	.20	.13 $\frac{1}{2}$	.18	.10	.48	.41	.33	.34	385,000,000
1886.....	.34	.74	.31	.19 $\frac{1}{2}$	.13 $\frac{1}{4}$	.17 $\frac{1}{2}$	.10 $\frac{1}{2}$	.47	.41	.32	.35	429,000,000
1887.....	.33	.73 $\frac{1}{4}$	.31 $\frac{1}{2}$	.20 $\frac{1}{4}$	.14	.18	.11	.48	.42	.34	.37	418,000,000
1888.....	.30 $\frac{1}{2}$	.68	.31 $\frac{1}{2}$	.20 $\frac{1}{2}$	.14	.17 $\frac{1}{4}$	.11	.48	.42	.33	.36	471,000,000
1889.....	.33 $\frac{3}{4}$	.73 $\frac{1}{2}$	.35	.23	.16 $\frac{1}{2}$	.20 $\frac{1}{4}$	.12 $\frac{1}{4}$	.54	.48	.38	.41	478,000,000
1890.....	.33	.73 $\frac{1}{4}$	.32	.21 $\frac{1}{2}$	.15	.19	.12	.50	.44	.36	.40 $\frac{1}{2}$	511,000,000
1891.....	.31 $\frac{1}{4}$	.70 $\frac{3}{4}$	.29 $\frac{1}{2}$	.20	.13 $\frac{3}{4}$	.17 $\frac{1}{2}$	.10 $\frac{3}{4}$	.45	.40	.33	.36	592,000,000
1892 a....	.28	.62 $\frac{1}{4}$	.24	.16	.11	.15	.09	.37	.32	.27	.29 $\frac{1}{2}$	635,000,000

a Quotations are for 4 months.

TABLE B.—*Prices of Ohio medium washed clothing wool, and the same scoured; with prices in England of Australian crossbred, Lincoln hogs, and Sussex fleeces, together with prices of carpet wools.*

[This table was compiled by Messrs. Manger & Avery, Boston, Mass. The foreign prices were furnished by Mr. James L. Bowes, Liverpool, Eng., and have been converted to United States money on the basis of two cents to the penny. Ohio prices are averages for the year. Prices for territory medium are from Coats Brothers', Philadelphia, Pa., July circular. Foreign prices are for the close of each year. Lincoln hogs and Sussex fleeces are washed English wools. Australian crossbred and Sussex fleeces correspond very nearly to Ohio medium fleeces. There is no domestic wool, marketed in any quantity, which corresponds to Lincoln hogs. The estimated shrinkage on Australian crossbred is 35 to 40 per cent; on Sussex fleeces it is 30 to 33 per cent. The United States tariff on English wools imported was as follows: 1850, 30 per cent; from 1851 to 1861, 24 per cent; from 1861 to 1864, 5 per cent; from 1864 to 1867, 12 cents per pound and 10 per cent; from 1867 to 1872, 12 cents per pound and 12 per cent; from 1872 to 1875, 10.8 cents per pound and 9 per cent; from 1875 to 1883, 12 cents per pound and 10 per cent; from 1883 to 1890, 10 cents per pound; from 1890, 12 cents per pound. The tariff on carpet wools was as follows: From 1850 to 1857, 30 per cent; from 1857 to 1861, if not over 20 cents in value, free; over 20 cents, 24 per cent; 1861 to 1864, less than 18 cents, 5 per cent; 18 to 24 cents, 3 cents per pound; over 24 cents, 9 cents per pound; from 1864 to 1867, not over 12 cents, 3 cents per pound; 12 to 24 cents, 6 cents per pound; 24 to 32 cents, 10 cents per pound and 10 per cent; over 32 cents, 12 cents per pound and 10 per cent; from 1867 to 1872, 12 cents or less, 3 cents per pound; over 12 cents, 6 cents per pound; from 1872 to 1875, 10 per cent less than tariff of 1867; from 1875 to 1883, 12 cents or less, 3 cents per pound; over 12 cents, 6 cents per pound; from 1883 to 1890, 12 cents or less, 2½ cents per pound; over 12 cents, 5 cents per pound; from 1890, 13 cents or less, 32 per cent; over 13 cents, 50 per cent.]

Year.	Ohio, medium washed fleece.	Ohio, medium fleece, scoured.	Terri- tory, me- dium.	Austra- lian cross- bred, un- washed.	Lincoln hogs.	Sussex fleeces.	Carpet wools.			Annual production of Great Britain in pounds.
							Scotch High- lands.	East India.	Dons- koi, washed.	
1850.....	\$0.38½	\$0.57½	.....	.....	\$0.27	\$0.30	\$0.09¼	\$0.19½	\$0.17	.....
1851.....	.41½	.62	.....	.....	.27	.30	.09	.19	.16½	.....
1852.....	.38½	.56¾	.....	.....	.30½	.37	.10½	.23	.18-19½	.....
1853.....	.53¾	.80¼	.....	.....	.33	.40½	.12½	.26	.20	.....
1854.....	.43	.65	.....	.....	.26	.26½	.09	.24	.16-19	.....
1855.....	.37¾	.56½	.....	.....	.29	.32½	.09½	.27	.17	.....
1856.....	.45	.68¼	.....	.....	.42½	.40	.13½	.30	.19	.....
1857.....	.46½	.72¼	.....	.....	.32	.32	.10	.28	.15½	.....
1858.....	.36½	.56¼	.....	.....	.41½	.41	.11½	.31	.17	.....
1859.....	.47	.71¼	.....	.....	.43	.41½	.12	.32	.17½	.....
1860.....	.47½	.71	.....	.....	.44½	.38½	.12	.33½	.18	.....
1861.....	.38¾	.58	.....	.....	.42	.35	.11½	.34	.18	.....
1862.....	.50½	.76½	.....	.....	.47	.41	.16	.38½	.22½	.....
1863.....	.75¾	1.18½	.....	.....	.52	.46	.18	.42	.24	.....
1864.....	.87½	1.39	.....	.....	.64	.49	.19	.36	.24	.....
1865.....	.82	1.28¼	.....	.....	.58	.42	.18½	.40½	.24½	.....
1866.....	.63	.98½	.....	.....	.48	.38	.17	.40	.22½	.....
1867.....	.50¾	.79¾	.....	.....	.34	.35	.10	.29	.17	.....
1868.....	.46	.70¾	.....	.....	.41	.33½	.10½	.28	.18½	162,000,000
1869.....	.49	.74¼	.....	.....	.39½	.29½	.11	.28	.17½	155,591,000
1870.....	.46½	.69½	.....	.....	.36	.27	.11	.26	.19	149,576,000
1871.....	.55	.82	.....	.....	.55	.44½	.21	.39½	.30	144,783,000
1872.....	.70½	1.10¼	.....	.....	.56	.45½	.19	.41	.27	155,680,000
1873.....	.55½	.85½	.....	.....	.52	.40	.14	.39	.20	165,350,000
1874.....	.54¼	.83½	.....	\$0.34	.46	.38	.14	.32	.21	167,042,000
1875.....	.51¾	.79¾	.....	.32	.42	.36	.15	.31	.22	161,782,000
1876.....	.44	.67¾	.....	.28	.38	.36	.12	.33	.22	155,835,000
1877.....	.42¾	.66¾	.....	.27	.33	.35	.11	.26½	.19	152,000,000
1878.....	.40¼	.63	.....	.26	.28	.30	.08½	.23	.15	151,700,000
1879.....	.37½	.57¾	.....	.25	.31½	.32	.11	.31	.19	153,233,000
1880.....	.52¾	.83¾	.....	.32	.28	.33	.11	.27½	.21	148,729,000
1881.....	.45¾	.72¾	.....	.28	.26½	.31	.10	.26	.18½	138,574,000
1882.....	.45¼	.72	\$0.30	.28	.21	.29	.09	.25	.17½	129,000,000
1883.....	.42	.67¾	.25	.27½	.20	.29	.08½	.23	.16½	123,338,000
1884.....	.36½	.59	.22	.27	.21½	.26	.07½	.20½	.14½	132,410,000
1885.....	.32¾	.53	.22	.25	.20½	.24	.08	.21	.14½	136,130,000
1886.....	.35¼	.57	.26	.23½	.22	.27½	.09½	.23½	.17	136,544,000
1887.....	.37¼	.61	.28	.25	.21½	.26	.09	.23	.15	133,809,000
1888.....	.34	.54¾	.22	.24½	.21¼	.26	.09	.21½	.15	133,622,000
1889.....	.37¾	.61	.27	.28	.28	.28	.09½	.23	.15	132,770,000
1890.....	.36¾	.59¼	.24	.27	.20½	.24	.08½	.21½	.14½	137,724,000
1891.....	.36	.58	.24	.27	.18¾	.24	.08	.20	.14	147,474,000

APPENDIX G.

REPORT OF MR. JOSHUA REECE, JR.

19 EAST 130TH STREET,
New York, October 15, 1892.

DEAR SIR: In agreement with a verbal understanding that was adopted by the sub-committee of the Senate Finance Committee June 6, 1891, at a meeting at the Fifth Avenue Hotel, and that was supplemented by the instructions communicated in your letters of June 11, 1891, the gathering and arranging of the prices for the various textile articles specified were begun and prosecuted with all diligence. As had been suggested to your committee at the outset, the securing of prices for nearly half a century was confronted with difficulties, such as very radical changes in the qualities and in the fabrics in the last twenty years, the polite declination of some parties to furnish the information desired, and that, of very many of the articles, the records of prices back of 1873 had been destroyed in the Boston conflagration of November 9, 1872. Prior to this date, however, your agent had collected and preserved the monthly prices of several of the articles enumerated by you, and such data proved invaluable in furthering the work in hand, and of the fifty articles named for as many as thirty-two of them the quarterly prices for varying periods (or for forty-five years and less) were handed to your statistician September 17 following.

For the remainder of the articles the securing of prices has been attended with greater difficulty, as fireproof vaults that have not been opened in ten and more years have been ransacked for invoice and sales books, their pages examined, and abstracts made. This has been tedious work, as it could be done only by those who were familiar with the books and the particular classes of goods required. Of some articles the collection of prices for other than seemingly short periods has been rendered impossible in consequence of the phenomenal improvement in the manufacturing of qualities and fabrics, as the result of improved machinery, the advance of operatives in technical knowledge, and other causes that have coöperated. Illustrations in this direction are most conspicuous in Riverside worsted suitings, Atlantic Mills cashmeres, all-wool scarlet shirts and drawers, and half-hose, blankets, and other articles for short terms, and the greater excellence remarked in the fabrics of the mills named has been a general feature of the textile manufacturing interests.

In reviewing the work done your agent can not but express satisfaction at its completeness, and that in the publication of the figures that have been gathered, a record of leading fabrics and their values for a long period will be preserved for future guidance. At the same time the impression is better grounded that monthly or semi-monthly prices would have returned better results, of which feature only those conversant with the markets can form any estimate.

In conclusion, this transmission would be incomplete without proper acknowledgments being made to each and every one for the alertness with which they have responded and the courteous readiness that has been manifested in extending to your agent all the facilities at their commands. Moreover, the accuracy of the figures will be unquestioned in mentioning the following representative establishments, to whom our heartiest thanks are tendered for the prices furnished for the different classes of goods for which they are the selling agents, to wit:

Bliss, Fabyan & Co., Pepperell cottons, and Bates quilts.
John L. Bremer & Co., Pequot sheetings, and Stark drills.
Lawrence & Co., Pacific Mills dress goods.
Lawrence, Taylor & Co., Lonsdale and Hope cottons.
William Iselin & Co., scarlet all wool underwear.
B. B. & R. Knight, Fruit of the Loom cottons.
Faulkner, Page & Co., scarlet and blue mixed twilled flannels.
Parker, Wilder & Co., scarlet and blue mixed twilled flannels.
W. L. Strong & Co., white flannels.
A. D. Juilliard & Co., worsted suiting and cashmeres.
Catlin & Co., Putnam all wool cassimeres.
Dana, Tucker & Co., Lancaster staple gingham.
Auchincloss Brothers, J. & P. Coats' six-cord spool cotton.
Joseph T. Low & Co., New York Mills bleached cottons.
John & James Dobson, blankets.
S. N. & C. Russell Mfg. Co., cotton warp cassimeres.

Very respectfully, your obedient servant,

JOSHUA REECE, JR.

Hon. NELSON W. ALDRICH,

Chairman Sub-committee on Tariff,

Committee on Finance, United States Senate.

APPENDIX H.

REPORT OF MR. EDWARD STANWOOD.

BOSTON, *September 8, 1892.*

DEAR SIR: I have from time to time, in forwarding to your committee the statements of prices of various classes of cotton goods, referred to the difficulties in procuring the same, and have also noted the circumstances which must be taken into account in estimating the relative value of the several statements. It may be well after the conclusion of the whole work to restate in general some of the points.

It was the intention of the committee, as communicated to me, to procure the quarterly wholesale cash prices of various standard classes of cotton goods, selecting as far as possible the makes the prices of which had been reported down to 1849 in a former Treasury report and adding to the same new classes of standard goods the manufacture of which had been introduced during the last half century.

In carrying out this scheme I was confronted at the outset by the circumstance that the great fire in Boston had destroyed the books both of manufacturers and of selling agents, so that a continuity of quarterly prices of many of the classes of goods formerly reported was out of the question. But while the collection is less complete than, but for this circumstance, it might have been, it is not believed that the omission of the prices of many classes of goods will lead to any statistical error, inasmuch as the former statements in reality duplicated many classes of goods which were so nearly alike that it was unnecessary to report all, and since the statements I have forwarded cover all the important classes of manufacture which have been established more than fifty years. The only other difficulties I encountered were caused by the indifference of manufacturers and selling agents. It would not be true to say that any of them were hostile. It was at the cost of not a little persuasion that some of those who had figures which would be useful for this inquiry were induced to allow their own clerks or myself to draw off those figures. In very few cases, it appears, are manufacturers in the habit of retaining a full history of their own operations so that it may be obtained even by themselves for their own use.

It may be said in general that the quarterly prices of cotton goods submitted need in each case to be considered in the light of the facts presented at the time those prices were transmitted to you. The effort was made to state those prices in net cash, but owing to the credit practice in the cotton-goods trade it was never possible to make the prices conform with absolute strictness to this rule, but the course of prices is well indicated because in general the statement is made in the same form for the same class of goods throughout the entire time for which the report is made.

Very truly yours,

EDWARD STANWOOD, *Secretary.*

Hon. NELSON W. ALDRICH.

Chairman Sub-committee on Tariff,

Committee on Finance, United States Senate.

APPENDIX I.

REPORT OF MR. HENRY BOWER.

MANUFACTURING CHEMISTS' ASSOCIATION
OF THE UNITED STATES,
Philadelphia, Pa., September 26, 1892.

DEAR SIR: Your favor of the 19th instant was duly received. The list of prices of drugs and chemicals from the year 1840 to 1891, made by Mr. Whitton Evens, chemical broker, No. 9 North Front street, Philadelphia, under my directions, was compiled from sources as follows: From lists contained in the Shipping List and New York Price Current, published at New York; in the Oil, Paint, and Drug Reporter, also published at New York. The following firms aided by permitting or giving extracts from their books of account:

Rosengarten & Sons, Philadelphia, manufacturing chemists.
George D. Wetherill & Co., Philadelphia, wholesale druggists.
Baltimore Chrome Works, Baltimore, Md., manufacturers bichrome.
Henry Bower & Son, Philadelphia, manufacturing chemists.
John T. Lewis & Bros. Co., Philadelphia, white lead, linseed oil.
Harrison Bros. & Co., Philadelphia, color and chemical manufacturers.

And other establishments.

The work naturally required a long time, embracing a period of four months. I can not say that any great difficulties were encountered in obtaining the information. The firms named—leading and representative houses of the industry—responded cheerfully to my request.

You may rest assured of the accuracy of this report.

Yours, truly,

HENRY BOWER,
*Secretary of the Manufacturing Chemists'
Association of the United States.*

Hon. NELSON W. ALDRICH,
*Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.*

APPENDIX J.

PRICES OF MISCELLANEOUS ARTICLES.

Through the courtesy of correspondents of the committee, prices were furnished for England for three of the articles upon the list. These prices undoubtedly have a bearing upon the purposes of the committee, and should be published as a matter of record. There was no place in the tables of the report where they could properly be included, and they are therefore inserted at this point. It would lead us too far astray here to enter upon an analysis of the figures, but for the convenience of their study we have added a statement of relative prices.

Foreign prices of certain articles.

METALS AND IMPLEMENTS—ANVILS (PRICES IN ENGLAND).

[The prices were furnished by Mr. Clark Fisher, of Trenton, N. J. Prices are from the records of invoices in the New York custom house, and are supposed to represent current market prices in England.]

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
1846.....	\$0. 07	1858.....	\$0. 07 $\frac{3}{10}$	1870.....	\$0. 05 $\frac{7}{10}$	1882.....	\$0. 06 $\frac{1}{10}$
1847.....	. 07	1859.....	. 07 $\frac{1}{2}$	1871.....	. 05 $\frac{3}{5}$	1883.....	. 06 $\frac{2}{5}$
1848.....	. 07	1860.....	. 06 $\frac{1}{5}$	1872.....	. 06	1884.....	. 06 $\frac{1}{10}$
1849.....	. 07	1861.....	. 05 $\frac{3}{10}$	1873.....	. 07 $\frac{3}{10}$	1885.....	. 06
1850.....	. 06 $\frac{1}{2}$	1862.....	. 05	1874.....	. 07 $\frac{1}{2}$	1886.....	. 06
1851.....	. 06 $\frac{1}{2}$	1863.....	. 05	1875.....	. 07 $\frac{4}{5}$	1887.....	. 06
1852.....	. 06 $\frac{1}{2}$	1864.....	. 05 $\frac{7}{10}$	1876.....	. 07 $\frac{3}{5}$	1888.....	. 06
1853.....	. 06 $\frac{9}{10}$	1865.....	. 05 $\frac{7}{10}$	1877.....	. 06 $\frac{3}{5}$	1889.....	. 06
1854.....	. 06 $\frac{1}{5}$	1866.....	. 06	1878.....	. 06 $\frac{3}{5}$	1890.....	. 06
1855.....	. 06 $\frac{1}{5}$	1867.....	. 05 $\frac{1}{2}$	1879.....	. 06 $\frac{1}{10}$	1891.....	. 06
1856.....	. 07 $\frac{1}{2}$	1868.....	. 05 $\frac{1}{2}$	1880.....	. 06 $\frac{3}{5}$		
1857.....	. 07 $\frac{1}{4}$	1869.....	. 05 $\frac{1}{5}$	1881.....	. 06 $\frac{2}{5}$		

DRUGS AND CHEMICALS—OXIDE OF COBALT (PRICES IN ENGLAND).

[The prices were furnished by Messrs. Henry Wiggin & Co., of Birmingham, to Mr. Joseph Wharton. The prices are for the English market. The advance in 1888 is said to have been due to a combination in Europe formed to prevent the destructive competition of several previous years.]

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
July, 1841.....	\$9. 33 $\frac{1}{4}$	Apr., 1845.....	\$7. 40	Jan., 1849.....	\$5. 22 $\frac{1}{4}$	Oct., 1852.....	\$3. 32
Oct., 1841.....	9. 33 $\frac{1}{4}$	July, 1845.....	6. 40 $\frac{3}{4}$	Apr., 1849.....	5. 22 $\frac{1}{4}$	Jan., 1853.....	3. 55 $\frac{3}{4}$
Jan., 1842.....	8. 07	Oct., 1845.....	6. 40 $\frac{3}{4}$	July, 1849.....	5. 22 $\frac{1}{4}$	Apr., 1853.....	3. 55 $\frac{3}{4}$
Apr., 1842.....	8. 07	Jan., 1846.....	6. 24 $\frac{1}{2}$	Oct., 1849.....	4. 74 $\frac{1}{2}$	July, 1853.....	3. 55 $\frac{3}{4}$
July, 1842.....	7. 86 $\frac{1}{2}$	Apr., 1846.....	5. 92	Jan., 1850.....	4. 16 $\frac{1}{4}$	Oct., 1853.....	3. 55 $\frac{3}{4}$
Oct., 1842.....	7. 86 $\frac{1}{2}$	July, 1846.....	5. 92	Apr., 1850.....	4. 16 $\frac{1}{4}$	Jan., 1854.....	3. 32
Jan., 1843.....	7. 40 $\frac{1}{4}$	Oct., 1846.....	5. 92	July, 1850.....	3. 59 $\frac{1}{2}$	Apr., 1854.....	3. 23 $\frac{1}{4}$
Apr., 1843.....	7. 40 $\frac{1}{4}$	Jan., 1847.....	5. 92	Oct., 1850.....	3. 35	July, 1854.....	3. 23 $\frac{1}{4}$
July, 1843.....	7. 40 $\frac{1}{4}$	Apr., 1847.....	5. 92	Jan., 1851.....	3. 32	Oct., 1854.....	3. 00 $\frac{3}{4}$
Oct., 1843.....	7. 40 $\frac{1}{4}$	July, 1847.....	5. 92	Apr., 1851.....	3. 32	Jan., 1855.....	3. 00 $\frac{3}{4}$
Jan., 1844.....	7. 58 $\frac{1}{3}$	Oct., 1847.....	5. 92	July, 1851.....	3. 08 $\frac{1}{4}$	Apr., 1855.....	3. 00 $\frac{3}{4}$
Apr., 1844.....	7. 40	Jan., 1848.....	5. 92	Oct., 1851.....	3. 08 $\frac{1}{4}$	July, 1855.....	3. 00 $\frac{3}{4}$
July, 1844.....	7. 68 $\frac{1}{2}$	Apr., 1848.....	5. 92	Jan., 1852.....	3. 32	Oct., 1855.....	3. 00 $\frac{3}{4}$
Oct., 1844.....	7. 68 $\frac{1}{2}$	July, 1848.....	5. 92	Apr., 1852.....	3. 32	Jan., 1856.....	3. 01 $\frac{3}{4}$
Jan., 1845.....	7. 40	Oct., 1848.....	5. 22 $\frac{1}{4}$	July, 1852.....	3. 32	Apr., 1856.....	3. 01

DRUGS AND CHEMICALS—OXIDE OF COBALT (PRICES IN ENGLAND)—Concluded.

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
July, 1856.....	\$2. 85	July, 1865.....	\$2. 82 $\frac{3}{4}$	July, 1874.....	\$3. 70	Apr., 1883.....	\$2. 06 $\frac{3}{4}$
Oct., 1856.....	2. 85	Oct., 1865.....	2. 55 $\frac{1}{2}$	Oct., 1874.....	3. 70	July, 1883.....	2. 06 $\frac{3}{4}$
Jan., 1857.....	2. 85	Jan., 1866.....	2. 55 $\frac{1}{2}$	Jan., 1875.....	3. 70	Oct., 1883.....	2. 06 $\frac{3}{4}$
Apr., 1857.....	2. 85	Apr., 1866.....	2. 55 $\frac{1}{2}$	Apr., 1875.....	3. 70	Jan., 1884.....	2. 06 $\frac{3}{4}$
July, 1857.....	2. 85	July, 1866.....	2. 55 $\frac{1}{2}$	July, 1875.....	3. 70	Apr., 1884.....	2. 06 $\frac{3}{4}$
Oct., 1857.....	2. 85	Oct., 1866.....	2. 55 $\frac{1}{2}$	Oct., 1875.....	3. 70	July, 1884.....	1. 94 $\frac{3}{4}$
Jan., 1858.....	3. 15 $\frac{1}{2}$	Jan., 1867.....	2. 73 $\frac{3}{4}$	Jan., 1876.....	3. 23 $\frac{1}{2}$	Oct., 1884.....	1. 94 $\frac{3}{4}$
Apr., 1858.....	3. 15 $\frac{1}{2}$	Apr., 1867.....	2. 54 $\frac{1}{2}$	Apr., 1876.....	3. 23 $\frac{1}{2}$	Jan., 1885.....	1. 88 $\frac{1}{2}$
July, 1858.....	3. 28 $\frac{1}{2}$	July, 1867.....	2. 19	July, 1876.....	3. 23 $\frac{1}{2}$	Apr., 1885.....	1. 88 $\frac{1}{2}$
Oct., 1858.....	3. 28 $\frac{1}{2}$	Oct., 1867.....	2. 06 $\frac{3}{4}$	Oct., 1876.....	3. 06 $\frac{3}{4}$	July, 1885.....	1. 88 $\frac{1}{2}$
Jan., 1859.....	3. 37 $\frac{2}{3}$	Jan., 1868.....	1. 89	Jan., 1877.....	3. 06 $\frac{3}{4}$	Oct., 1885.....	1. 82 $\frac{1}{2}$
Apr., 1859.....	3. 37 $\frac{2}{3}$	Apr., 1868.....	1. 85	Apr., 1877.....	3. 28 $\frac{1}{2}$	Jan., 1886.....	1. 82 $\frac{1}{2}$
July, 1859.....	3. 37 $\frac{2}{3}$	July, 1868.....	1. 85	July, 1877.....	3. 46 $\frac{3}{4}$	Apr., 1886.....	1. 82 $\frac{1}{2}$
Oct., 1859.....	3. 37 $\frac{2}{3}$	Oct., 1868.....	1. 85	Oct., 1877.....	3. 46 $\frac{3}{4}$	July, 1886.....	1. 82 $\frac{1}{2}$
Jan., 1860.....	3. 37 $\frac{2}{3}$	Jan., 1869.....	1. 61 $\frac{3}{4}$	Jan., 1878.....	3. 06 $\frac{3}{4}$	Oct., 1886.....	1. 67 $\frac{3}{4}$
Apr., 1860.....	3. 37 $\frac{2}{3}$	Apr., 1869.....	1. 57 $\frac{2}{3}$	Apr., 1878.....	3. 23 $\frac{1}{2}$	Jan., 1887.....	1. 63 $\frac{1}{2}$
July, 1860.....	3. 19 $\frac{1}{2}$	July, 1869.....	1. 81	July, 1878.....	3. 23 $\frac{1}{2}$	Apr., 1887.....	1. 58 $\frac{2}{3}$
Oct., 1860.....	3. 19 $\frac{1}{2}$	Oct., 1869.....	1. 81	Oct., 1878.....	3. 06 $\frac{3}{4}$	July, 1887.....	1. 58 $\frac{2}{3}$
Jan., 1861.....	3. 19 $\frac{1}{2}$	Jan., 1870.....	1. 81	Jan., 1879.....	3. 06 $\frac{3}{4}$	Oct., 1887.....	1. 58 $\frac{2}{3}$
Apr., 1861.....	3. 19 $\frac{1}{2}$	Apr., 1870.....	1. 81	Apr., 1879.....	2. 89 $\frac{1}{2}$	Jan., 1888.....	1. 54
July, 1861.....	3. 19 $\frac{1}{2}$	July, 1870.....	1. 81	July, 1879.....	2. 89 $\frac{1}{2}$	Apr., 1888.....	2. 07 $\frac{2}{3}$
Oct., 1861.....	3. 19 $\frac{1}{2}$	Oct., 1870.....	1. 81	Oct., 1879.....	2. 42 $\frac{1}{2}$	July, 1888.....	2. 07 $\frac{2}{3}$
Jan., 1862.....	3. 19 $\frac{1}{2}$	Jan., 1871.....	1. 81	Jan., 1880.....	2. 31 $\frac{1}{2}$	Oct., 1888.....	2. 07 $\frac{2}{3}$
Apr., 1862.....	3. 10 $\frac{1}{4}$	Apr., 1871.....	1. 91 $\frac{2}{3}$	Apr., 1880.....	2. 31 $\frac{1}{2}$	Jan., 1889.....	2. 07 $\frac{2}{3}$
July, 1862.....	3. 10 $\frac{1}{4}$	July, 1871.....	1. 91 $\frac{2}{3}$	July, 1880.....	2. 31 $\frac{1}{2}$	Apr., 1889.....	2. 07 $\frac{2}{3}$
Oct., 1862.....	3. 10 $\frac{1}{4}$	Oct., 1871.....	2. 13	Oct., 1880.....	2. 31 $\frac{1}{2}$	July, 1889.....	2. 07 $\frac{2}{3}$
Jan., 1863.....	3. 10 $\frac{1}{4}$	Jan., 1872.....	2. 34 $\frac{1}{2}$	Jan., 1881.....	2. 54 $\frac{1}{2}$	Oct., 1889.....	2. 07 $\frac{2}{3}$
Apr., 1863.....	3. 01	Apr., 1872.....	2. 34 $\frac{1}{2}$	Apr., 1881.....	2. 54 $\frac{1}{2}$	Jan., 1890.....	2. 07 $\frac{2}{3}$
July, 1863.....	3. 01	July, 1872.....	2. 85	July, 1881.....	2. 54 $\frac{1}{2}$	Apr., 1890.....	2. 07 $\frac{2}{3}$
Oct., 1863.....	3. 01	Oct., 1872.....	3. 06 $\frac{2}{3}$	Oct., 1881.....	2. 54 $\frac{1}{2}$	July, 1890.....	2. 07 $\frac{2}{3}$
Jan., 1864.....	2. 92	Jan., 1873.....	3. 54 $\frac{1}{2}$	Jan., 1882.....	2. 31 $\frac{1}{2}$	Oct., 1890.....	2. 07 $\frac{2}{3}$
Apr., 1864.....	2. 92	Apr., 1873.....	4. 72 $\frac{1}{2}$	Apr., 1882.....	2. 19	Jan., 1891.....	2. 07 $\frac{2}{3}$
July, 1864.....	2. 92	July, 1873.....	4. 72 $\frac{1}{2}$	July, 1882.....	2. 19	Apr., 1891.....	2. 07 $\frac{2}{3}$
Oct., 1864.....	2. 92	Oct., 1873.....	4. 72 $\frac{1}{2}$	Oct., 1882.....	2. 19	July, 1891.....	2. 07 $\frac{2}{3}$
Jan., 1865.....	2. 82 $\frac{3}{4}$	Jan., 1874.....	3. 70	Jan., 1883.....	2. 06 $\frac{3}{4}$	Oct., 1891.....	2. 07 $\frac{2}{3}$
Apr., 1865.....	2. 82 $\frac{3}{4}$	Apr., 1874.....	3. 70				

METALS AND IMPLEMENTS—NICKEL, METALLIC (PRICES IN ENGLAND).

[The prices were furnished by Messrs. Henry Wiggin & Co., of Birmingham, to Mr. Joseph Wharton. The prices are for the English market. The advance in 1873 was due to the adoption of nickel by Germany for use in its smaller coins. The sudden decline, which came a few years later, was due to the discovery of extensive deposits in New Caledonia.]

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
Apr., 1840.....	\$1. 70 $\frac{1}{2}$	July, 1847.....	\$2. 92	Oct., 1854.....	\$1. 70 $\frac{1}{2}$	Jan., 1862.....	\$1. 09 $\frac{1}{2}$
July, 1840.....	1. 70 $\frac{1}{2}$	Oct., 1847.....	2. 67 $\frac{2}{3}$	Jan., 1855.....	1. 58 $\frac{1}{4}$	Apr., 1862.....	1. 09 $\frac{1}{2}$
Oct., 1840.....	1. 70 $\frac{1}{2}$	Jan., 1848.....	2. 43 $\frac{1}{2}$	Apr., 1855.....	1. 58 $\frac{1}{4}$	July, 1862.....	1. 09 $\frac{1}{2}$
Jan., 1841.....	1. 70 $\frac{1}{2}$	Apr., 1848.....	1. 94 $\frac{2}{3}$	July, 1855.....	1. 58 $\frac{1}{4}$	Oct., 1862.....	1. 09 $\frac{1}{2}$
Apr., 1841.....	1. 70 $\frac{1}{2}$	July, 1848.....	1. 94 $\frac{2}{3}$	Oct., 1855.....	1. 58 $\frac{1}{4}$	Jan., 1863.....	1. 09 $\frac{1}{2}$
July, 1841.....	1. 70 $\frac{1}{2}$	Oct., 1848.....	1. 94 $\frac{2}{3}$	Jan., 1856.....	1. 58 $\frac{1}{4}$	Apr., 1863.....	1. 09 $\frac{1}{2}$
Oct., 1841.....	1. 70 $\frac{1}{2}$	Jan., 1849.....	1. 94 $\frac{2}{3}$	Apr., 1856.....	1. 58 $\frac{1}{4}$	July, 1863.....	1. 15 $\frac{1}{2}$
Jan., 1842.....	1. 70 $\frac{1}{2}$	Apr., 1849.....	1. 94 $\frac{2}{3}$	July, 1856.....	1. 58 $\frac{1}{4}$	Oct., 1863.....	1. 15 $\frac{1}{2}$
Apr., 1842.....	1. 70 $\frac{1}{2}$	July, 1849.....	1. 94 $\frac{2}{3}$	Oct., 1856.....	1. 58 $\frac{1}{4}$	Jan., 1864.....	1. 15 $\frac{1}{2}$
July, 1842.....	2. 43 $\frac{1}{2}$	Oct., 1849.....	1. 94 $\frac{2}{3}$	Jan., 1857.....	1. 46	Apr., 1864.....	1. 15 $\frac{1}{2}$
Oct., 1842.....	2. 43 $\frac{1}{2}$	Jan., 1850.....	1. 94 $\frac{2}{3}$	Apr., 1857.....	1. 46	July, 1864.....	1. 15 $\frac{1}{2}$
Jan., 1843.....	2. 43 $\frac{1}{2}$	Apr., 1850.....	1. 94 $\frac{2}{3}$	July, 1857.....	1. 46	Oct., 1864.....	1. 15 $\frac{1}{2}$
Apr., 1843.....	2. 43 $\frac{1}{2}$	July, 1850.....	1. 94 $\frac{2}{3}$	Oct., 1857.....	1. 46	Jan., 1865.....	1. 09 $\frac{1}{2}$
July, 1843.....	2. 43 $\frac{1}{2}$	Oct., 1850.....	1. 94 $\frac{2}{3}$	Jan., 1858.....	1. 21 $\frac{2}{3}$	Apr., 1865.....	1. 09 $\frac{1}{2}$
Oct., 1843.....	2. 43 $\frac{1}{2}$	Jan., 1851.....	1. 94 $\frac{2}{3}$	Apr., 1858.....	1. 21 $\frac{2}{3}$	July, 1865.....	1. 09 $\frac{1}{2}$
Jan., 1844.....	2. 43 $\frac{1}{2}$	Apr., 1851.....	1. 94 $\frac{2}{3}$	July, 1858.....	1. 21	Oct., 1865.....	1. 09 $\frac{1}{2}$
Apr., 1844.....	2. 43 $\frac{1}{2}$	July, 1851.....	1. 94 $\frac{2}{3}$	Oct., 1858.....	1. 21	Jan., 1866.....	1. 09 $\frac{1}{2}$
July, 1844.....	3. 04 $\frac{1}{4}$	Oct., 1851.....	1. 94 $\frac{2}{3}$	Jan., 1859.....	1. 21	Apr., 1866.....	1. 09 $\frac{1}{2}$
Oct., 1844.....	3. 04 $\frac{1}{4}$	Jan., 1852.....	1. 94 $\frac{2}{3}$	Apr., 1859.....	1. 21	July, 1866.....	1. 09 $\frac{1}{2}$
Jan., 1845.....	3. 04 $\frac{1}{4}$	Apr., 1852.....	1. 94 $\frac{2}{3}$	July, 1859.....	1. 21	Oct., 1866.....	1. 09 $\frac{1}{2}$
Apr., 1845.....	3. 04 $\frac{1}{4}$	July, 1852.....	1. 94 $\frac{2}{3}$	Oct., 1859.....	1. 21	Jan., 1867.....	1. 09 $\frac{1}{2}$
July, 1845.....	3. 04 $\frac{1}{4}$	Oct., 1852.....	1. 94 $\frac{2}{3}$	Jan., 1860.....	1. 21	Apr., 1867.....	1. 09 $\frac{1}{2}$
Oct., 1845.....	3. 04 $\frac{1}{4}$	Jan., 1853.....	1. 70 $\frac{1}{2}$	Apr., 1860.....	1. 21	July, 1867.....	1. 09 $\frac{1}{2}$
Jan., 1846.....	3. 04 $\frac{1}{4}$	Apr., 1853.....	1. 70 $\frac{1}{2}$	July, 1860.....	1. 21	Oct., 1867.....	1. 09 $\frac{1}{2}$
Apr., 1846.....	3. 04 $\frac{1}{4}$	July, 1853.....	1. 70 $\frac{1}{2}$	Oct., 1860.....	1. 21	Jan., 1868.....	1. 09 $\frac{1}{2}$
July, 1846.....	3. 04 $\frac{1}{4}$	Oct., 1853.....	1. 70 $\frac{1}{2}$	Jan., 1861.....	1. 21	Apr., 1868.....	1. 09 $\frac{1}{2}$
Oct., 1846.....	3. 04 $\frac{1}{4}$	Jan., 1854.....	1. 70 $\frac{1}{2}$	Apr., 1861.....	1. 21	July, 1868.....	1. 09 $\frac{1}{2}$
Jan., 1847.....	3. 04 $\frac{1}{4}$	Apr., 1854.....	1. 70 $\frac{1}{2}$	July, 1861.....	1. 21	Oct., 1868.....	1. 09 $\frac{1}{2}$
Apr., 1847.....	3. 04 $\frac{1}{4}$	July, 1854.....	1. 70 $\frac{1}{2}$	Oct., 1861.....	1. 21	Jan., 1869.....	1. 09 $\frac{1}{2}$

METALS AND IMPLEMENTS—NICKEL, METALLIC (PRICES IN ENGLAND)—Concluded.

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
Apr., 1869.....	\$1. 09 $\frac{1}{2}$	Jan., 1875.....	\$2. 67 $\frac{3}{4}$	Oct., 1880.....	\$0. 85 $\frac{1}{4}$	July, 1886.....	\$0. 60 $\frac{1}{4}$
July, 1869.....	1. 09 $\frac{1}{2}$	Apr., 1875.....	2. 67 $\frac{3}{4}$	Jan., 1881.....	.79	Oct., 1886.....	.60 $\frac{1}{4}$
Oct., 1869.....	1. 09 $\frac{1}{2}$	July, 1875.....	2. 67 $\frac{3}{4}$	Apr., 1881.....	.79	Jan., 1887.....	.48 $\frac{3}{4}$
Jan., 1870.....	1. 09 $\frac{1}{2}$	Oct., 1875.....	2. 67 $\frac{3}{4}$	July, 1881.....	.85 $\frac{1}{4}$	Apr., 1887.....	.48 $\frac{3}{4}$
Apr., 1870.....	1. 09 $\frac{1}{2}$	Jan., 1876.....	2. 67 $\frac{3}{4}$	Oct., 1881.....	.85 $\frac{1}{4}$	July, 1887.....	.48 $\frac{3}{4}$
July, 1870.....	1. 09 $\frac{1}{2}$	Apr., 1876.....	2. 67 $\frac{3}{4}$	Jan., 1882.....	.73	Oct., 1887.....	.48 $\frac{3}{4}$
Oct., 1870.....	1. 09 $\frac{1}{2}$	July, 1876.....	2. 31 $\frac{1}{4}$	Apr., 1882.....	.73	Jan., 1888.....	.48 $\frac{3}{4}$
Jan., 1871.....	1. 09 $\frac{1}{2}$	Oct., 1876.....	1. 70 $\frac{1}{2}$	July, 1882.....	.73	Apr., 1888.....	.48 $\frac{3}{4}$
Apr., 1871.....	1. 09 $\frac{1}{2}$	Jan., 1877.....	1. 21 $\frac{3}{4}$	Oct., 1882.....	.73	July, 1888.....	.48 $\frac{3}{4}$
July, 1871.....	1. 09 $\frac{1}{2}$	Apr., 1877.....	1. 15 $\frac{1}{2}$	Jan., 1883.....	.73	Oct., 1888.....	.48 $\frac{3}{4}$
Oct., 1871.....	1. 21 $\frac{3}{4}$	July, 1877.....	1. 09 $\frac{1}{2}$	Apr., 1883.....	.73	Jan., 1889.....	.48 $\frac{3}{4}$
Jan., 1872.....	1. 21 $\frac{3}{4}$	Oct., 1877.....	1. 21 $\frac{3}{4}$	July, 1883.....	.73	Apr., 1889.....	.48 $\frac{3}{4}$
Apr., 1872.....	1. 33 $\frac{1}{4}$	Jan., 1878.....	.97 $\frac{1}{2}$	Oct., 1883.....	.73	July, 1889.....	.48 $\frac{3}{4}$
July, 1872.....	1. 58 $\frac{1}{4}$	Apr., 1878.....	.85 $\frac{1}{4}$	Jan., 1884.....	.67	Oct., 1889.....	.48 $\frac{3}{4}$
Oct., 1872.....	1. 94 $\frac{1}{2}$	July, 1878.....	.79	Apr., 1884.....	.67	Jan., 1890.....	.48 $\frac{3}{4}$
Jan., 1873.....	2. 19	Oct., 1878.....	.73	July, 1884.....	.60 $\frac{3}{4}$	Apr., 1890.....	.48 $\frac{3}{4}$
Apr., 1873.....	2. 19	Jan., 1879.....	.67	Oct., 1884.....	.60 $\frac{3}{4}$	July, 1890.....	.60 $\frac{3}{4}$
July, 1873.....	3. 89 $\frac{1}{2}$	Apr., 1879.....	.67	Jan., 1885.....	.60 $\frac{3}{4}$	Oct., 1890.....	.60 $\frac{3}{4}$
Oct., 1873.....	2. 67 $\frac{3}{4}$	July, 1879.....	.60 $\frac{3}{4}$	Apr., 1885.....	.60 $\frac{3}{4}$	Jan., 1891.....	.48 $\frac{3}{4}$
Jan., 1874.....	2. 67 $\frac{3}{4}$	Oct., 1879.....	.67	July, 1885.....	.60 $\frac{3}{4}$	Apr., 1891.....	.48 $\frac{3}{4}$
Apr., 1874.....	2. 67 $\frac{3}{4}$	Jan., 1880.....	.73	Oct., 1885.....	.60 $\frac{3}{4}$	July, 1891.....	.48 $\frac{3}{4}$
July, 1874.....	2. 67 $\frac{3}{4}$	Apr., 1880.....	.79	Jan., 1886.....	.60 $\frac{3}{4}$	Oct., 1891.....	.48 $\frac{3}{4}$
Oct., 1874.....	2. 67 $\frac{3}{4}$	July, 1880.....	.85 $\frac{1}{4}$	Apr., 1886.....	.60 $\frac{3}{4}$		

Relative foreign prices of certain articles.

Year.	Anvils.	Oxide of cobalt.	Nickel, metallic.	Year.	Anvils.	Oxide of cobalt.	Nickel, metallic.
1840.....			140. 0	1866.....	88. 2	75. 7	90. 0
1841.....			140. 0	1867.....	85. 3	81. 1	90. 0
1842.....		239. 0	140. 0	1868.....	80. 9	56. 0	90. 0
1843.....		219. 2	200. 0	1869.....	76. 5	47. 9	90. 0
1844.....		224. 6	200. 0	1870.....	83. 8	53. 6	90. 0
1845.....		219. 2	250. 1	1871.....	82. 4	53. 6	90. 0
1846.....	102. 9	184. 9	250. 1	1872.....	88. 2	69. 4	100. 0
1847.....	102. 9	175. 3	250. 1	1873.....	107. 4	104. 9	180. 0
1848.....	102. 9	175. 3	200. 0	1874.....	111. 8	109. 6	220. 0
1849.....	102. 9	154. 7	160. 0	1875.....	114. 7	109. 6	220. 0
1850.....	95. 6	123. 3	160. 0	1876.....	111. 8	95. 8	220. 0
1851.....	95. 6	98. 3	160. 0	1877.....	97. 1	90. 8	100. 0
1852.....	95. 6	98. 3	160. 0	1878.....	97. 1	90. 8	80. 0
1853.....	101. 5	105. 4	140. 0	1879.....	89. 7	90. 8	55. 1
1854.....	100. 0	98. 3	140. 0	1880.....	94. 1	68. 5	60. 0
1855.....	100. 0	89. 0	130. 1	1881.....	94. 1	75. 4	64. 9
1856.....	110. 3	89. 1	130. 1	1882.....	89. 7	68. 5	60. 0
1857.....	106. 6	84. 4	120. 0	1883.....	94. 1	61. 2	60. 0
1858.....	107. 4	93. 4	100. 0	1884.....	89. 7	61. 2	55. 1
1859.....	105. 9	100. 0	100. 0	1885.....	88. 2	55. 8	49. 9
1860.....	100. 0	100. 0	100. 0	1886.....	88. 2	54. 0	49. 9
1861.....	77. 9	94. 6	100. 0	1887.....	88. 2	48. 3	40. 0
1862.....	73. 5	94. 6	90. 0	1888.....	88. 2	45. 6	40. 0
1863.....	73. 5	91. 9	90. 0	1889.....	88. 2	61. 5	40. 0
1864.....	83. 8	86. 5	94. 9	1890.....	88. 2	61. 5	40. 0
1865.....	83. 8	83. 7	90. 0	1891.....	88. 2	61. 5	40. 0

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REPORT UPON CHANGES IN RAILWAY TRANSPORTATION
RATES ON FREIGHT TRAFFIC THROUGHOUT
THE UNITED STATES, 1852 TO 1893.

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REPORT
UPON
**CHANGES IN RAILWAY TRANSPORTATION RATES ON FREIGHT
TRAFFIC THROUGHOUT THE UNITED STATES,
1852 TO 1893.**

Hon. NELSON W. ALDRICH,
*Chairman Subcommittee on Tariff (Finance Committee),
United States Senate, Washington, D. C.:*

DEAR SIR: I have the honor to present herewith a report upon the investigation of changes in freight rates, in compliance with the request to place your committee in possession of data showing to what extent railroad freight charges throughout the United States have changed since 1850.

An investigation of this character involves a wider range of inquiry than has probably previously been undertaken. The information sought by the committee is not known to have heretofore been collated to the extent now desired, either by the railroads or any of the numerous agencies from which statistics of the railways frequently emanate. The successful conclusion of the investigation, it will therefore be seen, has been largely if not wholly dependent upon the friendly coöperation of officials of the railways, from whom the schedules and records for the earlier dates were in the first place to be obtained.

It is therefore proper to express appreciation of the courtesies uniformly extended by these officials. Wherever the records had been preserved and were thought of service every facility was offered for their inspection, and valuable assistance rendered in the work of analyzing the rate schedules, many of which had become obsolete years before the present incumbents in office had entered the service.

From a preliminary examination of the field from which most of the records and material would have to be collected it was ascertained that it would be quite impossible to begin the investigation with a date as early as 1850. From personal inquiry at the principal offices of the railroads it was learned that in few cases were the rate schedules available for any considerable number of years. With some, a system had been adopted for the preservation of such records, but various occurrences, such as fire, bursting of steam pipes, removals, changes in official personnel of the roads, had caused their destruction or misplacement, and as no pressing necessity had arisen, their restoration had not been attempted. With other companies very complete records were found, but only in one or two cases for years prior to 1864. In a majority of instances rates prior to the year named were only to be obtained from

the accounting records of the railroads, most of which have taken their place in the archives of the companies and could not now be reproduced without enormous labor to the roads, by whom the work would necessarily have to be performed. From 1864 to 1866 schedules were to be had in fragmentary form only and were not found to contain material sufficiently reliable to be of service.

In view of this condition it was seen that if the investigation was to be concluded within a reasonable period no extended research for material could be made for years prior to 1867, as this would require much time without the assurance of results to justify the labor.

The determination of the amount of data which would satisfactorily meet the requirements of a report of this character has not been the least of its troublesome features. In the several sections of the country are numerous railroads operating under the same general conditions and charging similar rates. To include the rates of all of such roads would result in much repetition and enlarge the report unnecessarily. The plan pursued has been to collect rates for as long a period as possible, for both competitive and local traffic of such rail and water carriers as will best represent the tendency of the changes in different sections. Articles of commercial prominence, such as grain, dressed beef, cotton, oil, coal, lumber, etc., are provided for by separate tables showing the rates between points where these articles comprise a large proportion of the traffic transported by the rail and water carriers. Territorial divisions of traffic associations and prominence of places have also largely guided in the selection of the rates. These, together with the somewhat elaborate exhibit of the operations and changes in freight classifications, as well as various data relating to mileage rates, it is believed will fully meet the purpose for which the investigation was undertaken.

Apropos of the general subject there have been included various data arranged to show the increase in tonnage movement by the carriers in different parts of the country. From such statements some idea may be formed of the revenue involved by the rate reductions and the consequent benefit to the shipping public.

The form of presentation chosen for the report will divide the data in four general headings, namely:

1. Development of Freight Classifications.
2. Changes in Competitive Rates.
3. Miscellaneous Data relating to Mileage Rates and Tonnage Movement.
4. Changes in Local Rates.

The numerous tables given are arranged to simplify the work of comparison, and are accompanied by such analysis and explanation as has been deemed necessary. From all of the forms of comparison presented it is clearly demonstrated that there has been a constant downward tendency in freight charges in all sections of the country.

Very respectfully submitted,

C. C. McCain.

THE DEVELOPMENT OF FREIGHT CLASSIFICATIONS.

The freight traffic of the railways of the United States is carried under two general classes of schedules, commonly known as Class Tariffs and Commodity Tariffs. The latter has reference to schedules applicable to such articles as grain, lumber, coal, live-stock, dressed beef, fertilizers, oil, etc., transported between sections of the country where these articles have attained a commercial and shipping importance which has made necessary specific rules for their transportation differing from those covering classified traffic, as well as a somewhat lower scale of rates than is applied to the latter.

Class tariffs are arranged to show the rates of the respective classes contained in the freight classifications. In the latter are found the great majority of articles carried by the railways, classified in accordance with the various elements that properly enter into the determination of freight charges; under these are also found the commodities above mentioned, and although exceptionally treated in certain sections as to rates, they are all amenable to some rule of the classification. The rate-making foundation for all commodities is seen to lie largely in the freight classification.

With the development of the railroad business of the country has followed the enlargement and extension of freight classifications. These publications are now current guides to the shipping public and have an enormous circulation. They are arranged in an enlarged and convenient manner, wherein may be found all commodities of commerce, described in every probable form of shipment, with a rate reference for each description, together with the rules and regulations under which each will be accepted for carriage. An effort will be here made to present the extent of the changes which have taken place in the principal classifications, and the advantages to the public resulting from the advancement in this branch of the railroad service.

Concerning the basis of constructing classifications, it may be said to have been early discovered that the charges for transportation of different articles of freight could not be apportioned among such articles with regard alone to the cost of carriage. This basis of determining the charges, it was found, would confine to narrow limits the movement of different articles whose bulk or weight was large in comparison to their value, while heavier articles with less bulk would be made to pay disproportionately low rates. "Under the system of apportioning the charges strictly to the cost some kinds of commerce which have been very useful to the country, and have a tendency to bring different sections into more intimate business and social relations, could never have amounted to any considerable magnitude, and in some cases could not have existed at all, for the simple reason that the value at the place of delivery would not equal the purchase price with the transportation added. The traffic would thus be precluded, because the charge for carriage would be greater than it could bear. On the other hand, the rates for the carriage of articles which, with small bulk or weight, concentrated great value would, on that system of making them, be absurdly low when compared to the value of the articles, and perhaps not

less so when the comparison was with the value of the service in transporting them."

Accordingly it was found not to be unjust to distribute the entire cost of service among all articles carried, on a basis that gave greater consideration to the relative value of the service than to the cost. Such a method would be most beneficial to the country; it would enlarge commerce and extend communication, and would be better for the railroads because of the increased traffic which would be brought to them.

The value of the article, carried under this system, would be the most important element in determining what freight charge it should bear. Other considerations, however, equally important, must not be overlooked when the freight classification is to be made. The classifications as now constructed have for their foundation the following elements:

The competitive element, or the rates made necessary by competition.

The volume of the business; that is, the tonnage movement.

The direction in which the freight moves; that is, whether it moves in the direction in which most of the freight is transported or in the reverse direction in which empty cars are running.

The value of the article.

The bulk and weight.

The degree of risk attending transportation.

The facilities required for particular or special shipments.

The conditions attending transportation, such as furnishing special equipment, as in the case of private dressed-beef cars or cars specially adapted for freight of a perishable nature, or cars of large size for freight of extraordinary bulk.

Another condition which has also received consideration is the analogy which the new articles to be classified bear to other articles found in the classification.

The conditions under which railroad companies can afford to transport traffic have a large influence in determining the classification.

These are the general rules under which classifications are constructed, and while to a large extent controlling, the classifications are, notwithstanding, in a great measure a series of compromises, the participants of which are not alone the railroads, but also the shippers and representatives of business interests throughout the country, the latter being afforded ample opportunity to join with the railroads in the discussion as to the proper classification of articles of shipment affecting their interests.

While the pressure for reductions is very strong from certain localities, concessions are not now so readily granted, as the territory covered by the freight classifications is so large that great care in the assignment of articles to particular classes must be taken in order to avoid working an injury to any particular section. The commercial and transportation interests are regarded as identical, and the welfare of the whole territory and all interests affected must be considered. It is, however, occasionally observed that particular localities are to some extent preferentially served by the action of carriers who resist proposed changes in the classification for the reason that in their opinion they will operate to the prejudice of certain patrons. Thus exceptions to the classification are created by a road continuing to carry some article at one class, when in the opinion of a majority of the roads using the classification, the articles could well stand a higher rating. At this time fewer articles are rated independently of the classification than ever before in the history of the railroads.

The tendency of the character of classification is constantly toward uniformity, and this frequently in the face of strong opposition made by different carriers who have found it difficult to repel the pressure for special changes sought by patrons in the districts which they serve, and especially in the face of local influences which would seemingly benefit both the road and the shipper.

At this time there are practically but three freight classifications in use throughout the United States, namely, the Official classification, the Southern Railway and Steamship Association classification, and the Western classification. The application of these is as follows:

First. The Official classification is used almost exclusively throughout the territory east of Lake Michigan, Chicago, and the Mississippi River, and north of the Ohio and Potomac Rivers, to the Atlantic seaboard.

Second. The Southern Railway and Steamship Association classification is applied generally by roads south of the Ohio and east of the Mississippi River to the seaboard.

Third. The Western classification governs in the territory north and west of Chicago, west of a line drawn from Chicago to St. Louis, and west of the Mississippi River, St. Louis to New Orleans.

In each of the three divisions of territory described exceptions to these particular classifications are made to some extent by State commissions, and by individual roads for State or local traffic. Traffic carried between different points in the sections above described is usually taken at either one or the other of these leading classifications. For example, the classified traffic from the Atlantic seaboard to the Pacific coast is carried under the Western classification; traffic from Chicago to Atlanta, Ga., is carried under the Southern Railway and Steamship Association classification.

The territory throughout which the Official classification is shown to govern is the largest both in point of tonnage and communities served. At the date of the passage of the act to regulate commerce, one hundred and thirty-one railroad companies within the territory defined above as governed by the Official classification each had a separate classification. In addition to those classifications which had grown up mainly to foster local conditions, and were thought to be beneficial to the particular roads and shippers, there were five associations of railroad companies, each having a classification. These classifications were as follows:

First. The local classification of each railroad company.

Second. The through west-bound classification, generally known as the "Trunk line west-bound classification," applying upon through traffic originating at the seaboard cities and points east of the western termini of the trunk lines, and destined to Buffalo, Erie, Pittsburg, Parkersburg, etc., and to a number of competitive points, trade centers, or railroad junctions beyond.

Third. The East-bound classification, which alone applied to east-bound traffic originating in the territory east of Chicago and the Mississippi River, west of the western termini of the trunk lines and north of the Ohio River and destined to the western termini of the trunk lines and points east thereof.

Fourth. Traffic between competitive interior points in the Middle States, namely, New York, Pennsylvania, New Jersey, Delaware, Maryland, Virginia, and West Virginia, and between the several trunk lines and connecting roads was governed by the Joint Merchandise classification, which also applied to the local traffic on certain roads.

Fifth. The Middle and Western States classification applied to traffic between competitive interior points west of the western termini of the trunk lines east of the Mississippi River and north of the Ohio River.

When it became certain that the interstate-commerce act would become a law, early in 1887, the railroad companies decided at a meeting held for the purpose that it would be necessary to create and if possible adhere to a uniform classification. At this meeting there was appointed a special committee, composed of representatives of ten or twelve different roads, whose duty it was to go over the various classifications then in force and unite them into one classification, and the result of the work of this committee was the formation of Official classification No. 1.

Under the former arrangement the through or larger portion of the classified traffic was carried in two classifications; the West-bound classification was applied to traffic moving westward while an entirely separate classification was applied to traffic moving eastward. These two classifications, as well as the rates of the respective classes, were entirely dissimilar; the latter made provision for twelve or thirteen classes which embraced the heavier or bulk freight carried mainly in carload quantities from the western centers to the seaboard, while the former provided almost exclusively for package freight, usually transported in small or less than carload shipments, the rules and regulations applicable to each classification being in a few instances similar.

The conditions and the requirements upon which the present classification is based are of an entirely different character, as the new issue governs all traffic, through and local, between all stations of the roads within the territory described.

It may be interesting to learn the methods under which an article may receive its place in the classification. This will be here briefly explained for the Official classification, which is applied exclusively by carriers covering more tonnage than any of the other classifications in use.

The Official classification committee is composed of twelve general and assistant general freight agents, representing twelve of the principal lines in the territory using that classification. While the twelve men referred to are the official representatives of only twelve railroads the Official classification governs and is used by one hundred and fifty different railroads the total mileage of which is 65,000 miles. Over 50 per cent of the total tonnage of all roads in the United States is carried under the Official classification.

This classification committee was created for the purpose of defining the classes under which freight shall be transported by the various lines within the territory above described.

What is known as the "through" business of the Trunk Line Association and the Central Traffic Association is arranged for by a joint committee composed of members of the two associations named, and this joint committee appoints the classification committee, which latter committee has a permanent chairman. All applications bearing upon changes or additions in the classification may be submitted in writing at any time, either by the railroads or shippers, to the chairman of the classification committee, together with the various reasons in support of the application for such changes. The chairman acknowledges the receipt of every such application, following which an investigation is made as to the value, bulk, and various other features relating to the article for which a change is sought and which are usually considered when making a classification.

Upon the conclusion of the investigation the chairman renders a report to the classification committee for its consideration and action, with a recommendation for or against the granting of the application. The chairman may make temporary rulings regarding the classification of any article, but the final classification of all articles is only obtained by vote of the roads in joint committee.

Official classification No. 1 was issued April 1, 1887, and may be said to have been largely experimental, as it was hardly to be expected that the commerce of so large an area could at once be made to conform to the new conditions resulting from the consolidation of the widely different classifications formerly in use. Protests and applications for changes were at once received from shippers, as well as from many of the railroads, and a revision of the first issue was almost immediately begun, resulting in the publication of Official classification No. 2, on July 15, 1887. Applications from various interested parties, committees of shippers, and the railroads, were constantly before the classification committee, the greater portion of which received favorable consideration. The consequent revisions in the classifications have necessitated frequent issues of this publication, the last being No. 11 of January 2, 1893.

It is proposed to show by comparative statements what changes have taken place in the classification of many of the important articles of shipment resulting from a consolidation of different classifications as well as from direct reductions in the existing classifications, together with the resulting changes in the rates. Data for this purpose are given to some extent for each of the leading classifications now in use. The separate tables are provided with notes of explanation from which it will be possible to determine to what extent lower rates are due to changes in the classification alone.

The first of these tables is arranged to show for a large number of articles the classification and rates under the three important classifications employed between the Mississippi River and the seaboard prior to 1887, in comparison with the consolidated or Official classification as now governing throughout this territory. Changes in the rates under these comparisons result from three causes: First, a reduction in the classification; second, a reduction in the rate; third, the assignment of a carload classification to articles which were formerly provided for by a less than carload rate only and were charged the same rate when in carload quantities.

The first comparison made is that of the Joint Merchandise classification, which prior to 1887 applied between interior points in the Middle States. The points selected for the comparison are Philadelphia, Pa., to Elmira, N. Y. The present rates between these points are shown to be somewhat lower than in 1886, and the Official classification is now applied, which is on a very much lower scale. The table is arranged to show the class and rate under which articles were taken in 1886 compared with the class and rate now charged.

The effect of the change in the charge to the public resulting from the adoption of the new Official classification and the lowering of the rates in this territory is illustrated by the commodity of glassware N. O. S. (not otherwise specified). Under the Joint Merchandise classification glassware N. O. S., L. C. L. (less than car loads) was first class, rate 40 cents per 100 pounds. The same rate applied to shipments of carload quantities. Under the present Official classification glassware is classed as second class, rate 30 cents per 100 pounds; in less than carloads, and when in carloads, it is third class, rate 25 cents

per 100 pounds. If there had been no change in the rate the lowering of the classification would have reduced the rate from first class, 40 cents, to second class, 32 cents; but the combined result of the lower classification and the lower rate produces a reduction of 10 cents per 100 pounds for quantities less than carloads, and 15 cents per 100 pounds for carload shipments.

The second comparison is that of the Middle and Western States classification, applying from Buffalo, Pittsburg, etc., to the Mississippi River, with the present Official, which embraces the same territory. The points and rates chosen for this comparison are those from Buffalo to East St. Louis; the rates of 1886 are given and those of 1893. There has been a material reduction in these rates, and a majority of the articles under the Official are found in lower classes than under the former or Middle and Western States classification. The combined results of these changes show important reductions in the charges to the public.

The third comparison is that of the present Official, which applies in both directions between New York and Chicago with the two former classifications as applied westward and eastward between the same points. In 1886 the rates between these points were on a distinct basis as between eastward and westward traffic, the eastward rates being considerably higher than those applied to westward business.

The eastward-bound traffic was divided into thirteen classes. By the adoption of the Official classification in 1887 the traffic was confined to six classes, and the rates in both directions were made alike. This effected very large reductions in the rates on traffic moving eastward formerly taken in the higher classes. The effect of this consolidation is illustrated by the article of liquid bluing, in glass. Less than carload shipments moving eastward, Chicago to New York, are now classified as second class, at a rate of 65 cents per 100 pounds, whereas formerly they were classified as second class at a rate of 85 cents per 100 pounds. Shipments in the same quantity moving westward were classified as first class with a rate of 75 cents, and are now taken at second class with a rate of 65 cents per 100 pounds. The same article in carload quantities prior to 1887 was carried from Chicago to New York at fourth class, 60 cents, and from New York to Chicago first class, 75 cents. At the present time carload shipments in both directions are taken at 30 cents per 100 pounds.

These tables should be studied carefully, as it will be seen, from the points for which comparisons are given, important sections of the country are represented, throughout which an enormous traffic is annually carried by the railroads. Reductions in the rates will appear for most of the articles given. In a few cases the rates for the less than carload shipments have been advanced, but it is noticed that in all of such instances reductions have been made on the same articles when carried in carload quantities.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 1—CLASSIFICATION AND RATES CHARGED ON IMPORTANT COMMODITIES BETWEEN PRINCIPAL POINTS UNDER THE SEVERAL FREIGHT CLASSIFICATIONS FORMERLY IN EFFECT AND WHICH HAVE BEEN MERGED WITH THE OFFICIAL CLASSIFICATION, AS COMPARED WITH THE CLASSIFICATION AND RATES CHARGED UNDER OFFICIAL CLASSIFICATION No. 11.

The names of the former classifications and points between which rates are stated are as follows, viz:

	Classes (Rates in cents per 100 pounds.)												
	1	2	3	4	5	6	A	B	C				
Philadelphia, Pa., to Elmira, N. Y.—Joint Merchandise classification, 1886.....	40	32	23	18	—	—	15	14½	14				
Official classification No. 11, 1893	35	30	25	18	15	13							
Buffalo, N. Y., to East St. Louis, Ill.—Middle and Western States classification, 1886	65	50	38	26	21	18							
Official classification No. 11, 1893.....	53½	47	34½	25	22	18							
Between New York, N. Y., and Chicago, Ill.—West-Bound Trunk-Line classification, 1886	75	65	45	35	—	—	—	—	—				
East-Bound classification, 1886.....	100	85	70	60	50	45	40	35	30	25	25	30	30
Official classification No. 11, 1893.....	75	65	50	35	30	25							

Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y.						Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill.						East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.					
	Less than carloads.			Carloads.			Less than carloads.			Carloads.			Less than carloads.			Carloads.		
	Class.	Rate.		Class.	Rate.		Class.	Rate.		Class.	Rate.		Class.	Rate.		Class.	Rate.	
		Joint Merchan- dise, 1886.	Official No. 11, 1893.		Joint Merchan- dise, 1886.	Official No. 11, 1893.		Joint Merchan- dise, 1886.	Official No. 11, 1893.		Joint Merchan- dise, 1886.	Official No. 11, 1893.		Joint Merchan- dise, 1886.	Official No. 11, 1893.		Joint Merchan- dise, 1886.	Official No. 11, 1893.
Acid, in iron drums, O. R.	3	23	18	3	23	15	5	23	15	5	21	22	2	85	35	5	85	30
Ale, in wood	4	18	25	4	18	15	5	38	15	5	21	22	3	70	50	5	35	30
Alum, in barrels or casks	4	18	18	4	18	15	5	26	15	5	21	22	4	60	35	5	70	30
Ammonia, aqua, in iron drums	3	23	18	3	23	15	5	26	15	5	21	22	4	45	35	5	60	30
Anchors	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Apples, green, in barrels	3	23	25	3	23	15	5	38	15	5	21	22	7	40	50	5	35	30
Apples, dried, in boxes	3	23	25	3	23	15	5	38	15	5	21	22	7	40	50	5	35	30
Argols, in barrels or casks	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Arsenic, crude, in barrels or kegs	3	23	30	3	23	18	5	38	18	5	21	22	6	45	35	5	45	30
Asphaltum, in barrels or casks	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Axes, boxed	2	32	18	2	32	15	5	26	15	5	21	22	6	45	35	5	45	30
Axle grease, in barrels or boxes	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Axle grease, in buckets or cans	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Babbit metal, in barrels or casks	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Bacon, boxed	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Bags or bagging, burlaps or gunny, in bales	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Bags, paper	2	32	25	2	32	15	5	26	15	5	21	22	6	45	35	5	45	30
Baking-powder	3	23	25	3	23	18	5	38	18	5	21	22	6	45	35	5	45	30
Barb wire	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Bark extract, tanner's, in barrels or casks	4	18	18	4	18	15	5	26	15	5	21	22	6	45	35	5	45	30
Barley, pearl, in barrels	2	32	25	2	32	15	5	26	15	5	21	22	6	45	35	5	45	30
Barrels, beer, empty	2	32	25	2	32	15	5	26	15	5	21	22	6	45	35	5	45	30
Barrels, flour	D1	80	35	1	40	35	1	65	35	1	65	35	4	30	30	6	30	25
Battling, cotton	1	40	35	1	40	35	1	65	35	1	65	35	4	30	30	6	30	25
Beans, dried, in bags or barrels	3	23	18	3	23	15	5	26	15	5	21	22	9	30	35	10	35	75
Bed springs, wire, coiled, in barrels or boxes	1	40	35	1	40	35	1	65	35	1	65	35	4	30	35	10	35	75
Beltting, leather, rubber, or canvas	2	32	30	2	32	18	4	38	18	4	38	25	2	85	65	2	85	30
Binding twine, or cord, for harvesters, in bales	4	18	18	4	18	15	5	26	15	5	21	22	2	85	65	2	85	35
Bird seed, or bird food, in boxes	3	23	30	3	23	18	4	38	18	4	38	25	4	60	50	4	60	50
Blacking, shoe, in boxes	3	23	25	3	23	18	4	38	18	4	38	25	3	70	60	5	70	35
Blankets (not otherwise specified), in bales	1	40	35	1	40	35	1	65	35	1	65	35	1	100	75	1	100	75

Blankets, shoddy, pressed in bales	1	2	40	30	1	1	47	65	1	1	2	65	75	70	75	65
Bleaching-powder	4	4	18	18	B	2	25	21	6	6	6	35	25	45	25	26
Bluing, liquid, in barrels	2	3	32	25	2	4	34½	50	4	4	4	50	75	60	75	30
Bluing, liquid, in glass	1	2	40	30	1	2	47	50	2	2	2	25	75	60	75	30
Boiler flues, iron	3	4	23	18	A	5	25	21	5	5	5	35	45	45	45	35
Bolts, iron, in boxes	4	4	18	18	A	5	25	21	5	5	5	35	45	25	45	35
Bolts, iron, in kegs	4	4	18	18	A	5	25	21	5	5	5	35	45	25	45	30
Bonedust	4	4	18	18	C	4	25	18	6	6	6	35	45	45	35	25
Books, in boxes	1	1	40	35	1	1	53½	65	1	1	1	75	75	70	75	65
Boots and shoes, boxed	1	1	40	35	1	1	53½	65	1	1	1	75	75	100	75	75
Borax, in barrels	4	3	18	25	4	4	34½	38	2	2	2	50	35	45	35	35
Bottles, O. R. B., in boxes, or barrels	3	2	3	30	4	5	34½	21	3	3	2	65	45	45	35	30
Boxes, paper	D1	3t1	80	105	3t1	3t1	160½	195	3t1	3t1	3t1	225	300	300	300	225
Boxes, paper, nested	D1	D1	80	70	D1	D1	160½	195	3t1	3t1	D1	150	300	300	150	150
Brass, sheet	2	2	32	30	2	2	34½	50	2	2	2	65	60	85	60	65
Brass fittings, boxed	2	2	32	25	2	3	34½	38	3	3	3	50	60	85	60	50
Brass, scrap, in barrels or casks	4	3	18	25	4	4	25	26	4	4	5	50	45	35	45	35
Brick, common	4	5	18	15	C	6	25	18	6	6	6	30	35	25	35	20
Brooms, in boxes or crates	1	2	40	30	1	2	47	50	2	2	2	65	75	45	75	65
Brimstone, in barrels or hogheads	4	4	18	18	4	6	25	26	6	6	4	35	45	45	35	20
Cabbages, in barrels	4	3	18	25	A	3	34½	21	3	3	3	50	45	70	45	55
Cabbages, in crates	4	4	18	18	A	4	25	21	4	4	4	35	45	45	45	35
Cabbages	4	4	18	18	A	4	25	21	4	4	4	35	45	25	35	35
Candles, less than 25 boxes	2	4	32	18	2	5	25	26	4	4	4	60	60	60	60	35
Candles, more than 25 boxes	2	4	32	18	2	5	25	21	4	4	4	60	60	30	35	30
Canned vegetables	3	4	23	18	4	4	25	21	5	5	5	35	35	35	35	35
Canned fruit and fish	3	4	23	18	4	4	25	21	5	5	5	35	35	40	35	30
Carboys, empty, O. R.	1	3	40	25	4	5	34½	18	6	6	4	50	75	45	35	30
Cards, show chromo advertising	1	1	40	35	1	1	53½	65	1	1	1	75	75	45	75	50
Carpeting	1	1	40	35	1	1	53½	65	1	1	1	75	75	100	75	70
Carpeting, jute or hemp	1	2	40	30	1	2	47	65	2	2	2	65	60	100	60	60
Cartridges, metallic	2	2	32	30	2	2	47	25	4	4	4	65	60	45	60	30
Cement, building	4	5	18	15	C	6	25	18	6	6	6	30	25	25	25	20
Chains, iron, loose	2	4	32	18	A	5	25	21	5	5	5	35	60	85	60	30
Chain, cable	2	4	32	18	A	5	25	21	5	5	5	35	60	25	25	20
Charcoal, lump	4	3	18	25	B	6	34½	18	6	6	4	50	35	25	35	30
China ware in boxes	1	1	40	35	1	1	53½	65	1	1	1	75	75	100	75	75
China ware in barrels or casks	1	2	40	30	1	2	47	50	2	2	2	65	60	100	60	60
Chocolate	2	2	32	30	2	2	47	25	4	4	4	65	60	45	60	30
Cider in wood	4	3	18	25	A	5	25	21	5	5	5	35	60	85	60	30
Cigars in boxes, corded, sealed, and strapped	1	1	40	35	1	1	53½	65	1	1	1	75	75	100	75	75
Clocks	1	1	40	35	1	1	53½	65	1	1	1	75	75	100	75	75
Cloth, wire, in boxes or casks	2	3	32	25	2	5	34½	22	1	1	3	50	60	45	60	30
Cloth, wire, in rolls	3	3	23	25	3	5	34½	22	1	1	3	50	45	45	45	30
Clothing, boxed	1	1	40	35	1	1	53½	65	1	1	1	75	75	100	75	75
Cocoa	2	2	32	30	2	2	47	25	4	4	4	65	60	85	60	65
Cocoanuts in bags	2	2	32	30	2	2	47	25	4	4	4	65	60	85	60	65
Coffee, ground or roasted	4	4	18	18	4	6	25	21	6	6	6	35	25	50	25	25
Coffee, green, in sacks	4	4	18	18	4	6	25	21	6	6	6	35	25	45	25	25

* Special.

† Special tariff.

Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y.				Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill.				East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.			
	Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.	
	Class.	Rate.	Class.	Rate.	Class.	Rate.	Class.	Rate.	Class.	Rate.	Class.	Rate.
Cotton waste, pressed, in bales	4	18	4	18	4	18	4	18	4	18	4	18
Cotton waste, not pressed	1	40	1	40	1	40	1	40	1	40	1	40
Currents, dried, in boxes, kegs, or bags	3	23	3	23	3	23	3	23	3	23	3	23
Cutlery	2	32	2	32	2	32	2	32	2	32	2	32
Dates	3	23	3	23	3	23	3	23	3	23	3	23
Demijohns	D1	80	D1	80	D1	80	D1	80	D1	80	D1	80
Dry goods as follows: calicoes, Canton flannel, canvas, corset jeans, cottonades, cotton warp, cotton yarn, crash, domestic checks, stripes, and chevrons, cotton duck, denims, twills, domestic, ginghams, glazed cambrics, etc., in bales or boxes	1	40	1	40	1	40	1	40	1	40	1	40
Dye woods in stock	3	23	3	23	3	23	3	23	3	23	3	23
Eggs, packed in barrels or boxes	2	32	2	32	2	32	2	32	2	32	2	32
Emery in barrels or casks	4	18	4	18	4	18	4	18	4	18	4	18
Emery in kegs	2	32	2	32	2	32	2	32	2	32	2	32
Emery wheels	1	40	1	40	1	40	1	40	1	40	1	40
Engines, stationary	3	23	3	23	3	23	3	23	3	23	3	23
Excelsior in bales	2	32	2	32	2	32	2	32	2	32	2	32
Extract of logwood in barrels	3	23	3	23	3	23	3	23	3	23	3	23
Extract of malt packed in boxes	1	40	1	40	1	40	1	40	1	40	1	40
Farina	4	18	4	18	4	18	4	18	4	18	4	18
Felt roofing	3	23	3	23	3	23	3	23	3	23	3	23
Fencing wire	4	18	4	18	4	18	4	18	4	18	4	18
Fertilizers, in barrels	1	40	1	40	1	40	1	40	1	40	1	40
Figs, in drums	4	18	4	18	4	18	4	18	4	18	4	18
Floor tiling	4	18	4	18	4	18	4	18	4	18	4	18
Flour, in barrels	4	18	4	18	4	18	4	18	4	18	4	18
Flour, in sacks	4	18	4	18	4	18	4	18	4	18	4	18
Gas fixtures	2	32	2	32	2	32	2	32	2	32	2	32
Gas pipe, iron	4	18	4	18	4	18	4	18	4	18	4	18

[illegible]

***Special.**

Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y.						Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill.						East, Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.					
	Less than car-loads.			Carloads.			Less than car-loads.			Carloads.			Less than carloads.			Carloads.		
	Class.		Rate.		Class.		Class.		Rate.		Class.		Class.		Rate.		Class.	
	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.	Joint Merchan- dise, 1886.	Official No. 11, 1893.
Lemons.....	1	40	32	25	2	65	38	34½	1	2	100	75	65	5	2	50	60	50
Licorice, root.....	2	32	15	18	3	38	38	25	2	2	85	60	65	2	2	85	60	35
Licorice, powdered, in barrels.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	35
Lime, in barrels.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	35
Lime-water, in barrels.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	35
Logs.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	35
Lumber, sawed, not over 27 feet, pine and oak.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	35
Lye, concentrated.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	35
Machines, sewing, K. D., boxed.....	1	40	32	25	2	65	38	34½	1	2	100	75	65	5	2	85	60	30
Mahogany boards and planks.....	3	23	18	15	3	38	38	22	3	3	70	45	50	2	2	85	60	50
Mahogany logs.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Malt in barrels.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Manganese.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	25
Manilla.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	25
Marble slabs, unwrought, O. R.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	35
Marble dust.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Mats, grass.....	1	40	32	25	2	65	38	34½	1	2	100	75	65	5	2	85	60	25
Matting, hemp, jute, or pine fiber.....	1	40	32	25	2	65	38	34½	1	2	100	75	65	5	2	85	60	25
Meal, in bulk.....	3	23	18	15	3	38	38	22	3	3	70	45	50	2	2	85	60	35
Meats, canned, boxed.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Meats, salted, boxed.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Milk, condensed, in cans, boxed.....	3	23	18	15	3	38	38	22	3	3	70	45	50	2	2	85	60	35
Millstones, in rough.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Mineral water, in wood.....	3	23	18	15	3	38	38	22	3	3	70	45	50	2	2	85	60	30
Mineral pulp.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Nails and spikes, in legs.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Nails, horseshoe, or finishing, in boxes.....	3	23	18	15	3	38	38	22	3	3	70	45	50	2	2	85	60	30
Nail rods.....	4	18	14½	13	5	21	38	25	3	3	50	60	65	5	4	50	60	30
Naphthalene, dry, in barrels.....	1	40	32	25	2	65	38	34½	1	2	100	75	65	5	2	85	60	35
Nuts, hickory, in barrels.....	2	32	15	18	3	38	38	25	3	3	50	60	65	5	4	50	60	35
Nuts, pecans, in barrels.....	2	32	15	18	3	38	38	25	3	3	50	60	65	5	4	50	60	35

Oakum.....	2	32	30	2	4	32	18	2	3	50	47	2	4	50	25	2	2	85	60	65	2	2	2	4	85	60	35
Oil, petroleum, coal, kerosene, carbon, naphthalene.....	3	23	30	4	3	18	18	3	1	38	47	(*)	3	38	34½	3	2	70	55	55	3	2	2	4	70	55	35
Oranges.....	1	40	30	2	3	32	25	1	2	65	80½	3	3	65	80½	1	1	100	80	80	5	2	2	3	50	80	50
Oysters, fresh, in cans.....	1	32	53	1	1	32	53	1	1	65	80½	1	1	65	80½	1	1	100	112½	113	1	1	1	1	100	112½	113
Packing, rubber.....	2	32	25	2	2	32	18	2	3	38	34½	3	4	38	25	2	3	85	45	50	2	2	2	4	85	45	35
Paints, asphalt, chemical earth, iron, lead, metallic, mineral, ocher, paraffine, rubber, zinc, oxide, in oil, in barrels.....	4	18	25	A	3	15	15	3	3	38	34½	3	5	38	22	6	4	45	35	50	6	4	4	5	45	35	30
Paper bags.....	2	32	25	4	4	18	15	4	4	26	34½	5	5	21	22	5	3	50	35	50	10	4	4	5	25	35	30
Paper, wrapping, straw or manilla.....	2	32	25	4	4	18	15	4	4	26	34½	5	5	21	22	5	3	50	35	50	10	4	4	5	25	35	30
Paraffine wax.....	4	32	18	4	5	32	15	4	4	26	25	5	5	21	22	8	4	35	75	35	8	1	5	5	35	75	30
Pease, dried, in barrels or sacks.....	3	23	18	4	5	18	15	4	4	26	25	5	5	21	22	9	4	30	35	35	10	4	5	5	25	35	30
Pegs, shoe, in barrels.....	1	40	25	4	5	18	15	2	2	50	34½	2	5	50	22	4	3	60	60	50	9	2	5	5	30	60	30
Pickles, in barrels or casks.....	4	18	25	4	5	18	15	4	4	26	34½	5	5	21	22	6	4	45	35	50	9	4	5	5	30	35	30
Pipe, lead, on reels or in rolls, O. R.....	2	32	25	2	4	32	18	3	3	38	34½	3	4	38	25	6	4	45	75	50	7	1	6	6	40	75	35
Pitch, in barrels.....	4	18	18	A	6	15	13	4	4	26	25	6	6	18	18	6	4	45	35	35	10	4	6	6	25	35	25
Potash, muriate of, for fertilizing purposes.....	4	18	18	C	6	14	13	4	4	26	25	6	6	18	18	6	4	45	35	35	9	4	6	6	30	35	25
Presses, printing, boxed, O. R.....	1	40	30	1	5	40	15	3	2	38	47	3	5	38	22	3	2	70	60	65	3	2	5	5	70	60	30
Printed matter, in sheets, boxed.....	1	40	35	1	3	40	25	1	1	65	53½	1	3	65	34½	2	1	85	75	75	3	1	3	3	70	75	50
Printed matter, in bundles.....	1	40	35	1	3	40	25	1	1	65	53½	1	3	65	34½	2	1	100	75	75	1	1	3	3	100	75	50
Prunes, in boxes or kegs.....	3	23	25	4	4	18	18	2	3	50	34½	2	4	50	25	2	2	85	60	50	2	2	4	4	85	60	35
Prunes, in barrels or casks.....	3	23	25	4	4	18	18	2	3	50	34½	2	4	50	25	2	2	85	60	50	2	2	4	4	85	60	35
Pulp, mineral.....	4	18	18	C	5	14	15	3	3	38	34½	3	4	38	22	3	4	70	35	35	3	4	4	5	70	35	30
Pulp, wood, wet.....	4	18	18	A	6	15	15	3	3	50	25	6	6	18	18	6	4	45	35	35	10	4	4	5	25	35	25
Pumice stone, in boxes, kegs, or bags.....	3	23	18	3	5	23	15	3	4	38	25	3	5	38	22	6	4	70	60	35	10	4	4	5	25	35	25
Pumice stone, in barrels or casks.....	3	23	18	3	5	23	15	3	4	38	25	3	5	38	22	6	4	70	60	35	10	4	4	5	25	35	25
Putty, in barrels.....	4	18	18	4	5	18	15	4	4	26	25	4	5	26	22	6	4	45	35	35	6	4	4	5	45	35	30
Radiators, steam.....	3	23	25	4	5	18	15	4	4	26	34½	5	5	21	22	6	4	45	35	50	9	4	4	5	45	35	30
Rags, in sacks.....	2	32	30	4	2	32	30	1	2	65	47	1	2	65	47	1	2	100	60	65	1	2	2	2	100	60	65
Rags, pressed, in bales.....	4	18	15	4	5	18	15	4	4	26	22	5	5	21	22	10	4	25	35	30	10	4	4	5	25	35	30
Raisins.....	2	32	25	3	4	23	18	2	2	50	34½	2	4	50	25	2	5	85	45	50	2	2	3	4	85	45	35
Rattan.....	1	40	35	1	3	40	25	1	1	65	53½	1	3	65	34½	2	1	100	75	75	1	1	3	3	100	75	50
Refrigerators.....	1	40	30	1	2	40	30	1	2	38	47	1	2	38	47	1	2	70	75	65	3	1	1	2	70	75	65
Rice.....	4	18	18	4	6	18	15	4	4	26	22	5	6	21	18	6	4	45	35	35	6	4	6	6	45	35	25
Roofing, felt.....	3	23	18	A	5	15	15	4	4	26	22	6	5	18	22	6	4	45	35	35	9	4	4	5	45	35	30
Roofing, paper.....	3	23	18	A	5	15	15	4	4	26	22	6	5	18	22	6	4	45	35	35	10	4	4	5	45	35	30
Rope, in coils.....	4	18	18	4	5	18	15	4	4	26	34½	5	5	21	22	6	4	45	35	50	6	4	4	5	45	35	35
Rope, wire.....	4	18	18	4	5	18	15	4	4	26	34½	5	5	21	22	6	4	45	35	50	6	4	4	5	45	35	30
Rosin, in barrels.....	4	18	18	A	6	15	13	4	4	26	25	6	6	18	18	6	4	45	25	35	10	4	6	6	45	25	25
Rugs, woolen, hemp, or jute.....	1	40	35	1	4	40	18	1	1	65	53½	1	4	65	25	1	1	100	75	75	1	1	4	4	100	75	35
Sadiron, in boxes.....	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Sadiron, in barrels.....	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Salt, in boxes.....	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Salt, in barrels.....	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Salts, Epsom or Glauber, in barrels.....	4	18	18	B	5	14½	15	5	5	21	22	(*)	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Sardines, in boxes.....	1	40	18	4	5	40	15	4	4	26	25	(*)	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Sash weights, loose.....	1	40	18	4	5	40	15	4	4	26	25	(*)	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Sash weights, in bundles of 50 pounds.....	4	18	18	A	5	15	15	4	4	26	25	(*)	5	21	22	6	4	45	60	35	6	2	4	5	45	60	30
Scales and scale beams, not boxed.....	2	32	35	2	5	32	15	1	1	65	53½	4	5	21	22	6	4	45	75	75	1	1	1	5	25	75	30

* Special.

Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y.						Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill.						East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.					
	Less than carloads.			Carloads.			Less than carloads.			Carloads.			Less than carloads.			Carloads.		
	Class.	Rate.	Joint Merchandise, 1886.	Class.	Rate.	Joint Merchandise, 1893.	Class.	Rate.	Joint Merchandise, 1886.	Class.	Rate.	Joint Merchandise, 1893.	Class.	Rate.	Joint Merchandise, 1886.	Class.	Rate.	Joint Merchandise, 1893.
Scythes, in boxes.....	2	32	25	2	32	25	3	32	32	5	40	15	3	32	32	5	40	15
Seeds, garden.....	1	40	30	1	40	30	3	40	40	5	18	15	3	40	40	5	18	15
Seeds, grass or orchard.....	3	23	25	4	23	25	5	23	23	5	18	15	5	23	23	5	18	15
Shot, in kegs.....	3	23	18	3	23	18	4	23	23	4	18	15	4	23	23	4	18	15
Shovels or spades, in boxes.....	2	32	18	4	32	18	4	32	18	4	18	15	4	32	18	4	18	15
Slate roofing.....	4	18	18	B	14	13	6	14	14	6	14	13	6	14	14	6	14	13
Slates, school, boxed.....	3	23	18	A	15	15	5	15	15	5	15	15	5	15	15	5	15	15
Slats, bed, in bundles.....	3	23	18	A	15	15	3	25	25	3	25	25	3	25	25	3	25	25
Soap, common, in boxes.....	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18
Soda, sal.....	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18
Spelter.....	3	23	18	4	23	18	4	23	23	4	23	18	4	23	23	4	23	18
Spikes, in kegs.....	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18
Starch, in barrels or boxes.....	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18
Stearine, in barrels.....	4	18	18	A	15	15	5	15	15	5	15	15	5	15	15	5	15	15
Strawboards, in bundles.....	4	18	18	A	15	15	5	15	15	5	15	15	5	15	15	5	15	15
Sugar, maple.....	2	32	25	A	23	18	5	23	23	5	23	18	5	23	23	5	23	18
Sugar, grape.....	3	23	25	3	23	25	3	23	23	3	23	25	3	23	23	3	23	25
Sugar, n. o. s.....	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18
Sulphur, in barrels.....	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18	4	18	18
Sirup, in cans, boxed.....	4	32	25	2	32	25	5	32	32	5	32	25	5	32	32	5	32	25
Tacks, iron, in boxes.....	2	32	18	4	32	18	4	32	18	4	32	18	4	32	18	4	32	18
Tallow.....	4	18	18	A	15	15	5	15	15	5	15	15	5	15	15	5	15	15
Tapioca.....	1	40	25	1	40	25	6	40	40	6	40	25	6	40	40	6	40	25
Tar, in barrels.....	4	18	18	A	15	15	4	15	15	4	15	15	4	15	15	4	15	15
Tea.....	1	40	35	1	40	35	1	40	35	1	40	35	1	40	35	1	40	35
Terra alba, in barrels.....	4	18	18	A	15	15	5	15	15	5	15	15	5	15	15	5	15	15
Toys, n. o. s., boxed.....	DI	1	80	DI	1	80	1	80	80	1	80	35	1	80	80	1	80	35
Tubing, iron.....	4	18	18	A	15	15	5	15	15	5	15	15	5	15	15	5	15	15
Umbrellas, in cases.....	1	40	35	1	40	35	1	40	35	1	40	35	1	40	35	1	40	35
Varnish, in cans, boxed.....	1	40	30	1	40	30	1	40	30	1	40	30	1	40	30	1	40	30
Vitriol, blue, in barrels.....	4	18	18	4	18	18	6	18	18	6	18	18	6	18	18	6	18	18

Vises, iron.....	2	4	32	18	2	5	32	15	4	4	26	25	5	21	22	6	2	2	4	45	60	35	6	2	1	5	45	60	30
Wadding.....	1	1	40	35	1	1	40	35	1	1	65	53½	1	65	53½	2	1	1	1	85	75	75	2	2	1	1	85	75	75
Washboards.....	2	2	32	30	4	4	18	15	2	2	38	47	5	21	22	3	2	2	2	30	35	65	9	9	4	5	30	35	30
Wheat, cracked.....	4	4	18	18	A	5	15	15	5	4	21	25	5	...	22	12	12	4	4	30	35	35	13	13	4	5	30	35	30
Wheelbarrows, iron or wood.....	1	3	40	25	4	5	18	15	1	3	65	34½	5	21	...	1½	1	1	3	150	75	50	9	9	4	5	30	35	25
Whiting.....	4	4	18	18	4	6	18	13	4	4	26	25	5	21	18	6	4	4	45	45	35	6	6	4	4	45	150	35	
Wire screens.....	...	1	...	35	...	4	...	18	1	1	65	53½	1	65	25	1	2t.1	2	1	100	150	75	6	6	2	4	85	60	35
Wire, copper.....	2	3	32	25	2	4	32	18	3	3	38	34½	3	38	25	2	2	2	85	60	50	2	2	2	4	85	60	35	
Wire, binding.....	2	4	32	18	4	5	18	16	3	4	38	25	5	21	22	5	2	2	50	60	35	6	6	4	5	45	35	30	
Wood pulp, wet.....	4	4	18	18	A	6	15	13	2	4	50	25	6	18	18	6	4	4	45	35	35	10	10	4	6	25	35	25	

*Special.

The most satisfactory form of presenting the general results of the consolidation of the classifications which was made on April 1, 1887, is given by the following table, showing the number of articles covered by the former classifications which were superseded by the Official classification.

The table is arranged to show the total number of classifications or descriptions, and also the proportion receiving separately less than car load and car-load rates, together with the percentage of the number of descriptions in each classification.

TABLE 2—COMPARISON OF VARIOUS CLASSIFICATIONS FORMERLY IN USE IN THE TERRITORY NOW COVERED BY THE OFFICIAL CLASSIFICATION WITH OFFICIAL CLASSIFICATION No. 11, EFFECTIVE JANUARY 2, 1893.

Name of classification.	Total number of classifications.		Classified as L. C. L. and C. L. quantity at same rating.		Classified as L. C. L. and C. L. quantity at lower rating.		Classified as C. L. with no rating for L. C. L.		Percentage of the number of classifications in each class to the total number in all classes.													Summary.						
	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	*1.	2.	3.	4.	5.	6.	8.	9.	10.	11.	12.	13.	A.	B.	C.	Spe- cial.	Total.	Total percentage above fourth class.	Total percentage in fourth class and lower.	
Joint Merchandise.....	1,073	100.00	710	66.17	354	32.99	9	.84	33.15	17.52	9.53	26.28	.....	.....	.....	.....	.....	.....	.....	.....	7.64	3.78	2.10	.....	100.00	60.20	39.80	
Middle and West'n States	2,681	100.00	1,673	62.40	669	24.95	339	12.65	22.09	9.14	18.36	25.19	21.43	3.49											.30	100.00	49.59	50.41
West Bound	971	100.00	824	84.86	137	14.11	10	1.03	31.76	23.65	11.37	30.96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.26	100.00	66.78	33.22	
East Bound.....	2,037	100.00	1,210	59.40	529	25.97	298	14.63	19.36	10.21	12.39	5.81	3.39	22.14	.98	3.86	7.09	8.42	1.01	3.04	2.30	.....	.....	.....	100.00	51.16	48.84	
Official No. 1.....	2,840	100.00	1,564	55.07	1,011	35.60	265	9.33	26.62	10.41	18.00	20.15	19.29	5.53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.00	55.03	44.97	
Official No. 11.....	5,634	100.00	2,121	37.65	3,105	55.11	408	7.24	22.54	11.96	18.71	18.63	23.46	4.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.00	53.21	46.79	

* Percentage shown includes articles classified higher than 1 class as 4 t 1, D 1, etc.

† Percentage of number of articles in fifth class and higher.

‡ Percentage of number of articles in sixth and lower classes.

In explanation of the figures in the foregoing table it should be stated that the number of items shown represents the entire number of descriptions under which classified freight is shipped, and is much greater than the actual number of articles classified. The class under which any particular article may be shipped and the rate that may be obtained often varies, depending upon its relative size, the manner in which it is packed for shipment, and the degree of risk assumed by the carrier. For example, lead pipe is classified as follows:

	Class.
Lead pipe, on reels or in rolls, carriers risk, less than car loads	1
car load	4
Lead pipe, on reels or in rolls, owner's risk, less than car loads	3
car load	4
Lead pipe, not boxed, not otherwise specified, less than car loads	2
Lead pipe, in boxes or casks, less car load	4

This article is included in the total number of items given in the table as four descriptions, though in fact but one article is classified. The same rule is observed for each of the classifications embraced in the table.

The largest increase in the classification is shown from a comparison of the old West Bound classification in effect prior to April, 1887, which applied from the seaboard to Chicago and other western competitive points. This provided for only 971 separate items. Of this number 824 or 84.86 per cent were classifications for shipments in quantities less than carloads, and which took the same rating when in carloads; 137 or 14.11 per cent were classifications for shipments in quantities less than carloads which had a separate lower rating when in carloads, and 10 or 1.3 per cent covered shipments in carloads only.

In the present Official classification there are 5,634 separate items, of which 2,121 or 37.65 per cent are for shipments in quantities less than carloads, which are given the same rating when in carloads; 3,105 or 55.11 per cent are for shipments in less than carload quantities, which have a separate lower rating when in carloads; and 408 or 7.24 per cent are for shipments in carload quantities only.

From these figures it is shown that the total number of items in the present Official classification exceeds by 4,663 the number in the former West Bound classification applying from the seaboard, and that the proportion classified as L. C. L., with the same rating for C. L., has decreased from 84.86 per cent in the old to 37.65 per cent in the new, while the proportion classified as L. C. L., with a lower rating when in carloads, has increased from 14.11 per cent in the old to 55.11 per cent in the new, and that 7.24 per cent of the present total number of items are for carload quantities only, as compared with 1.03 per cent in the former West Bound classification.

Of the total number of items in the old West Bound classification 66.78 per cent of the articles classified were classed above fourth-class, and 33.22 per cent were in fourth class or lower. These relations are shown to have greatly changed by the present Official classification, from which it is noticed that only 53.21 per cent of the articles classified are in classes higher than fourth class, and that 46.79 per cent are in fourth class or lower.

The number of articles for which no distinction was made as between the L. C. L. and C. L. rates were relatively more in the old classification than in the Official as now arranged, and conversely the number of articles which are classified lower when in C. L. than in L. C. L. quantities in the Official is relatively greater than the number similarly provided for in the old classification. Including the number of articles classified only in carload quantities with the articles classified both L.

C. L. and C. L., the total number of items in the former West Bound classification given a carload rating was 147 or 15.14 per cent, while in the present Official there are 3,513 or 62.35 per cent receiving a carload rating.

A similar comparison made with the Joint Merchandise classification, which governed shipments between the interior points in the Middle States, shows that there has been relatively a much greater increase in the articles which now may be taken at carload rates. The same may be said for the Middle and Western States classification, formerly applied westward from Buffalo and Pittsburg.

The former East Bound classification embraced a relatively larger tonnage taken at carload rates than either of the other old classifications mentioned, yet the application of the Official shows an increase of 2,686 items which may be now carried at carload rates between the points to which the East Bound classification formerly applied.

While the total number of items in the new classification is much greater than in the old classifications, it should be again explained that this numerical increase does not imply an addition to the traffic of new articles of commerce; it simply means that in many cases a commodity which under the old classifications was found in one class only, regardless of the manner in which it might be offered for shipment, is under the new classification placed in two or more different classes, according to the form in which it is received for transportation.

It is made apparent by a comparison of the percentages of classified items now receiving the carload rating, under the old and new classifications, that the public has been to a large degree benefited by the resulting lower rates thereon.

A further illustration of the extent of the enlargement of the classification now under consideration is found in the articles of furniture, agricultural implements, and machinery, as shown by the following table:

TABLE 3.—NUMBER OF DESCRIPTIONS.

	1867.			1876.			1887.			1893.		
	Total.	L. C. L.	C. L.	Total.	L. C. L.	C. L.	Total.	L. C. L.	C. L.	Total.	L. C. L.	C. L.
Furniture	8	8	.....	20	20	2	84	65	19	193	147	46
Agricultural implements.....	4	4	.....	5	5	2	114	89	25	180	128	52
Machinery.....	5	5	.....	5	5	2	63	47	16	105	59	46

It would appear from the above figures that the carriers have now provided a classification and rating for every possible form of package in which these articles are offered for shipment, and that the number receiving a lower or carload rating has greatly increased.

Throughout all the tables presented a gradual downward tendency is observed for the entire classification. The extent of these changes is further shown by a comparison of the average rates on all traffic from New York to Chicago. Expressed on the basis of the number of descriptions carried in each class the average rate for all descriptions in the classification was, in 1886, 63.53 cents, and in 1893, 48.77 cents per 100 lbs. Thus the variation in the classification of 20.91 per cent from the higher to lower classes is equivalent to a reduction in the average rate of 14.75 cents per 100 lbs.

In the numerous publications which have appeared from time to time, intended to show the decline in rates, only passing comment has been bestowed upon changes in the rates resulting from changes in freight classifications. It is common to compare the rates for various classes between two points for different periods and to draw conclusions from the changes shown by such comparisons. When these comparisons omit reference to the changes made within the same period in the classification they are obviously incomplete. It is a part of the history of freight classifications that from the date of their adoption constant pressure is brought to bear upon carriers using them from all classes of shippers for a lower classification of the articles in which they have business interest. These demands have usually been met by the carriers, as is shown by the frequent revision and changes in the leading classifications. The changes which have taken place in the classifications since 1887 have been far-reaching in their benefits to the public by the consequent reduction in the freight charges. This has been especially noticeable throughout the section now governed by the Official classification, and the tables have been arranged to present as fully as possible the effect of these changes. Similar results for the other sections governed by a general classification will be shown by appropriate tables.

THE WESTERN CLASSIFICATION.

The Western classification governs the territory north and west of Chicago, west of a line drawn from Chicago to St. Louis, and west of the Mississippi River and St. Louis to New Orleans. Prior to 1887 there were many local classifications used throughout this territory, which it is understood have since been superseded and there are now few roads in the territory described not using the Western classification exclusively.

Traffic not covered by commodity rates to and from the Pacific coast was formerly carried under classifications different in name though similar to the Western. A comparison of these with the present Western would no doubt show important changes. As the greater portion of the traffic to and from the Pacific coast is carried at commodity rates, and a very full statement of the changes in these rates is given elsewhere, no comparison of the classifications applied to Pacific coast traffic will here be made. Seventy important Western roads, with a mileage of 90,000 miles, officially announce the adoption of the present Western classification.

The section served by this classification is seen to cover a vast area in which are located thousands of villages, towns, and cities, the transportation business of which is to a large extent affected by its operation. Excluding grain, coal, lumber, live stock, etc., which are principally carried at commodity rates, there yet remain many classes of merchandise, such as clothing, groceries, drugs, machinery, household effects, and innumerable other articles consumed in one form or another by the people, and which are covered by this classification.

Important changes have taken place resulting in lower freight charges to the public, the extent of which will be shown in the following table:

TABLE 4—COMPARISON OF THE VARIOUS CLASSIFICATIONS IN USE DURING THE PERIOD SINCE 1873 IN THE TERRITORY NOW COVERED BY THE WESTERN CLASSIFICATION NUMBER 15.

Year.	Total number of classifications.		Classified as L. C. L.; C. L. at same rating.		Classified as L. C. L. and C. L. quantities at lower rating.		Classified as C. L. and no rating for L. C. L.		Percentage of total number of classifications in each class.										Per-centage in third class or higher.	Per-centage lower than third class.
	No.	Per ct.	No.	Per ct.	No.	Per ct.	No.	Per ct.	*1	2	3	4	5	A	B	C	D	E	Special.	Total.
1873.....	907	100.00	769	84.78	104	11.47	34	3.75	43.42	20.28	7.42	17.01	.....	6.33	1.38	1.98	2.18	.....	.....	100.00
1878.....	897	100.00	757	84.39	133	14.83	7	0.78	38.93	18.45	12.52	19.80	.....	2.91	3.79	1.46	2.14	.....	.....	100.00
1882.....	1,102	100.00	905	82.12	172	15.61	25	2.27	38.77	18.92	12.01	18.76	.....	3.53	5.65	2.28	0.08	.....	.....	100.00
1886.....	1,593	100.00	939	58.95	591	37.10	63	3.95	31.91	14.33	12.91	16.35	7.37	7.97	2.88	1.97	1.56	.....	2.75	100.00
1887.....	1,672	100.00	924	55.26	666	39.83	82	4.91	30.62	14.54	13.60	15.74	8.21	7.57	3.21	2.61	1.54	1.16	1.20	100.00
1893.....	3,658	100.00	1,642	44.89	1,731	47.32	285	7.79	28.39	12.69	12.82	16.92	10.65	9.22	3.16	2.19	1.91	0.93	1.12	100.00

NOTE.—1873, Chicago, Burlington and Quincy Railroad local freight classification, July 1, 1873.
 1878, Chicago, Burlington and Quincy Railroad local freight classification, January 7, 1878.
 1882, Chicago, Burlington and Quincy Railroad revised joint classification, January 1, 1882.
 1886, Joint Western classification, February 1, 1886.
 1887, Western classification April 1, 1887.
 1893, Western classification, January 1, 1893.

*Percentage shown includes articles classified higher than first-class as 4 times 1, D 1, etc.

The present Western classification contains 3,658 separate descriptions of articles. As compared with the classifications of previous years shown by the table, a large increase is observed. This increase is due to the addition of new articles, and principally from extending the classifications to provide for the different forms of shipment of articles already classified. By the arrangement adopted for the table it may be readily seen to what extent articles now receiving a carload rate have increased. For example, in 1882 only 17.88 per cent of the articles were given a carload rating. At the present time 47.32 per cent of the articles may be taken at lower rates when in carload quantities than when in less than carload quantities. There has also been a large increase in the number of articles which are carried in carload quantities only, making a total of 55.11 percent assigned a carload classification.

The tendency to reduction in the classification is also prominently shown by a comparison of the percentages of the articles carried in the separate classes. The summary of these percentages given in the last two columns shows that 46.10 per cent of the articles are now found in classes lower than third class, while in 1882 only 30 per cent of the articles were in such classes. The latter proportion is upon a total of only about a third of the number of articles now covered by the classification.

As further illustrative of the operations of the Western classification the following table is inserted, showing for a number of important articles the changes in the classification from Chicago to Missouri River points, together with the changes in the rates for the same commodities. From this table it may be readily seen to what extent reductions have been made, both in the classification and in the rates.

Similar reductions have taken place in the through and local rates of all railroads throughout the territory covered by this classification.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 5.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1878, 1887, AND 1893, IN TERRITORY GOVERNED BY WESTERN CLASSIFICATION. RATES USED ARE IN CENTS PER 100 POUNDS FROM CHICAGO, ILL., TO SOUTHWESTERN MISSOURI RIVER POINTS, VIZ: KANSAS CITY, MO.; ATCHISON, KANS., AND LEAVENWORTH, KANS.

[In cents per 100 lbs.]

	1	2	3	4	5	A	B	C	D	E
January, 1878.....	85	70	40	30	25	37½	30	20	.....	.....
April, 1887.....	90	75	50	35	30	32½	29½	23	23	16
January, 1893.....	75	60	42	30	25	30	25	20	17½	19

Commodities.	Less than carloads						Carloads.					
	Class.			Rate.			Class.			Rate.		
	1878	1887	1893	1878	1887	1893	1878	1887	1893	1878	1887	1893
Agricultural implements as follows:												
Cultivators, iron or wood, K. D., flat, in bundles.....	D1	1	1	170	90	75	D1	A	A	170	32½	30
Fanning mills, K. D., flat, in bundles.....	D1	1	1	170	90	75	D1	A	A	170	32½	30
Harvesting machines (self-binding harvesters, K. D.).....	1	1	3	85	90	42	1	A	A	85	32½	30
Plows, n. o. s., K. D., boxed or crated.....	3	2	3	40	75	42	3	A	A	40	32½	30
Ale and porter in wood.....	3	3	3	40	50	42	4	3	5	30	50	25
Alum.....	3	3	3	40	50	42	3	3	4	40	50	30
Asbestos, in barrels or casks.....	4	4	4	30	35	30	4	5	5	30	30	25
Asphaltum.....	4	4	4	30	35	30	C	C	D	20	23	17½
Bags, burlap, gunny, or jute in bales.....	2	4	4	70	35	30	2	4	5	70	35	25
Baking powder, in tin boxes.....	2	3	3	70	50	42	2	4	4	70	35	30
Blacking, shoe, in boxes or kegs.....	2	2	2	70	75	60	2	2	4	70	75	30
Blue vitriol.....	2	2	4	70	75	30	2	4	5	70	35	25
Bluing.....	1	1	1	85	90	75	1	1	4	85	90	30
Borax.....	2	2	3	70	75	42	2	2	4	70	75	30
Brick, common, n. o. s.....	4	4	4	30	35	30	D	E	E	..	29½	16
Brimstone, in barrels and hogsheads.....	4	4	4	30	35	30	4	4	C	30	23	20
Canned fish (not sardines), fruits, meats, soups, and vegetables, n. o. s.....	3	4	4	40	35	30	4	5	5	30	30	25
Chloride of lime.....	3	3	3	40	50	42	3	3	D	40	50	17½
Clay, common.....	4	4	4	30	35	30	4	E	E	30	16	16
Clothing, boxed.....	1	1	1	85	90	75	1	1	1	85	90	75
Coffee, green, in sacks.....	4	4	4	30	35	30	4	5	5	30	30	25
Crockery and earthenware, in hogsheads, casks, or crates.....	4	2	4	30	75	30	4	5	5	30	30	25
Dry goods, in boxes.....	1	1	1	85	90	75	1	1	1	85	90	75
Drugs and medicines.....	1	1	1	85	90	75	1	1	1	85	90	75
Eggs packed in barrels or boxes, prepaid.....	2	2	2	70	75	60	4	3	3	30	50	42
Farina.....	2	2	2	70	75	60	2	2	2	70	75	60
Felt for roofing.....	3	3	4	40	50	30	B	B	B	30	29½	25
Fertilizers, n. o. s.....	4	4	4	30	35	30	D	D	E	..	23	16
Fruit, dried or desiccated, n. o. s., in cans, boxes, barrels, or sacks released.....	2	3	3	70	50	42	2	4	4	70	35	30
Fruit, green, n. o. s.....	1	1	1	85	90	75	1	*3	3	85	46	42
Furniture, as follows:												
Bedsteads, n. o. s.....	2	2	2	70	75	60	2	A	A	70	32½	30
Chairs, common l. c. l., boxed.....	4	3	2	30	50	60	4	3	4	30	50	30
Mattresses.....	D1	1	1	170	90	75	1	1	1	85	90	75
Glass, window, common, not exceeding 86 inches.....	4	4	4	30	35	30	B	4	5	30	35	25
Glassware, n. o. s., in boxes, barrels, casks, or crates.....	3	1	2	40	90	60	3	3	4	40	50	30
Groceries, n. o. s.....	2	1	1	70	90	75	2	1	1	70	90	75
Hardware, n. o. s.....	2	2	2	70	75	60	2	2	2	70	75	60
Hides, green, in bundles.....	2	3	3	70	50	42	3	5	5	40	30	25
Hoops, hoop poles, C. L., loaded together.....	4	4	4	30	35	30	C	C	D	20	23	17½
Husks, in bales.....	1	2	3	85	75	42	D	D	C	.....	23	20
Ice, prepaid.....	1	1	1	85	90	75	D	E	E	.....	16	16
India-rubber goods.....	1	1	1	85	90	75	1	1	1	85	90	75
Iron chain, loose (except cable).....	2	2	2	70	75	60	2	2	2	70	75	60
Iron horse and mule shoes.....	4	4	4	30	35	30	B	5	5	30	30	25
Iron nails and spikes, n. o. s., in kegs.....	4	4	4	30	35	30	B	5	5	30	30	25

*15 per cent less than 3.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 5.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1878, 1887, AND 1893, ETC.—Continued.

[In cents per 100 lbs.]

Commodities.	Less than carloads.						Carloads.					
	Class.			Rate.			Class.			Rate.		
	1878	1887	1893	1878	1887	1893	1878	1887	1893	1878	1887	1893
Jute and jute butts, in bales	3	3	3	40	50	42	B	B	B	30	29½	25
Lard, in barrels or tierces	4	4	4	30	35	30	4	5	5	30	30	25
Leather, in rolls or boxes	2	2	2	70	75	60	2	2	4	70	75	30
Licorice mass, in boxes	2	2	3	70	75	42	2	2	4	70	75	30
Lime	4	4	4	30	35	30	C	C	C	20	23	20
Lime water in barrels	2	2	3	70	75	42	2	2	D	70	75	17½
Looms	D1	D1	D1	170	180	150	D1	D1	A	170	180	30
Malt	4	4	4	30	35	30	B	B	C	30	29½	20
Manila, in bales	3	3	2	40	75	60	3	B	B	40	29½	25
Marble dust	4	4	4	30	35	30	C	C	D	20	23	17½
Matting, cocoa and hemp	2	2	2	70	75	60	2	2	2	70	75	60
Nuts, hickory, in barrels	2	2	2	70	75	60	2	3	A	70	50	30
Oakum, in bales	3	3	2	40	50	60	B	B	B	30	29½	25
Oilcloth, floor, in boxes or crates under 12 feet in length	3	3	2	40	50	60	3	3	3	40	50	42
Paints in oil, white lead, or zinc, chemical paraffin, rubber, rubber in cans, boxed, or in kegs or barrels	4	4	4	30	35	30	5	5	5	25	30	25
Paper, building or roofing	3	3	4	40	50	30	B	B	B	30	29½	25
Paraffin wax, in barrels or boxes	2	2	2	70	75	60	2	2	4	70	75	30
Paste, flour, in barrels	4	4	4	30	35	30	4	4	5	30	30	25
Pipe, sewer, o. r. b.	2	2	3	70	75	42	C	C	E	20	23	16
Pipe, sewer, in crates or hogsheads ..	2	2	4	70	75	30	C	C	3	20	23	42
Pitch	4	4	4	30	35	30	D	C	D	.....	23	17½
Plaster, land, in sacks or barrels	4	4	4	30	35	30	D	E	C	.....	16	20
Potatoes	2	4	4	70	35	30	A	C	C	37½	23	20
Presses, cider	2	2	2	70	75	60	2	2	A	70	75	30
Printers' cases, in bundles	2	2	3	70	75	42	2	2	B	70	75	25
Pulp, wood	3	3	3	40	52	42	C	C	C	20	23	20
Pumps and tubina, wooden	3	3	3	40	50	42	A	A	B	37	32½	25
Raisins	2	2	2	70	75	60	3	3	3	40	50	42
Rice, in barrels	4	4	4	30	35	30	5	5	5	25	30	25
Rope, one-quarter inch or over	4	4	3	30	35	42	4	4	4	30	35	30
Saddlery, n. o. s., boxed	2	2	2	70	75	60	2	2	2	70	75	60
Sand, in bulk, c. 1	4	4	4	30	35	30	D	E	E	.....	16	16
Sardines or shardines, domestic and imported, in boxes or kegs	2	2	2	70	75	60	2	2	5	70	75	25
Seeds, broom corn	1	3	3	85	50	42	4	5	A	30	30	30
Seeds, clover	2	3	3	70	50	42	4	5	A	30	30	30
Shot, in kegs, boxes, or gunnies	4	4	4	30	35	30	4	4	5	30	35	25
Slate, school	2	2	2	70	75	60	2	2	4	70	75	30
Slate, roofing	3	3	3	40	50	42	B	B	D	30	29½	17½
Soda, nitrate of	4	4	4	30	35	30	4	4	5	30	35	25
Soda, silicate of	4	4	4	30	35	30	4	5	5	30	30	25
Solder, in boxes	2	2	3	70	75	42	2	2	4	70	75	30
Starch, in boxes or barrels	3	3	3	40	50	42	4	4	5	30	35	25
Staves and heading	4	4	4	30	35	30	C	5	D	20	30	17½
Straw, baled and pressed	3	3	3	40	52	42	D	C	C	.....	23	20
Sugar, n. o. s., in boxes, barrels, or sacks	4	4	4	30	35	30	5	5	5	25	30	25
Sulphur, in sacks, barrels, or hogsheads	4	4	4	30	35	30	4	4	C.	30	35	20
Sirup, n. o. s., in barrels, kegs, or kits	4	4	4	30	35	30	5	5	5	25	30	25
Tallow	4	4	4	30	35	30	5	5	5	25	30	25
Tar, in barrels or cases	4	4	4	30	35	30	C	D	D	20	23	17½
Tile, drain, in crates or hogsheads ..	4	4	4	30	35	30	D	E	D	.....	16	17½
Tile, roofing	3	3	4	40	50	30	B	B	D	30	29½	17½
Tin, pig or slab	2	2	2	70	75	60	2	2	4	70	75	30
Tinware, nested in boxes, barrels, or crates	2	2	2	70	75	60	2	2	4	70	75	30
Wire cloth	2	2	2	70	75	60	2	4	4	70	35	30
Wood, roofing	1	3	4	85	50	30	1	5	5	85	30	25
Wool, in sacks	1	2	2	85	75	60	1	2	2	85	75	60
Wool, compressed in bales	3	3	3	40	50	42	3	3	3	40	50	42
Yeast cakes, powder, or crumbs	3	3	3	40	50	42	3	3	4	40	50	30
Zinc, pig or slabs	4	4	4	30	35	30	5	5	5	25	30	25

SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION CLASSIFICATION.

The classification of this association applies throughout the territory south of the Ohio and Potomac rivers, and east of the Mississippi River. In this classification, as well as in the previous ones mentioned, there have been extensive reductions by the increase in the number of descriptions of articles carried thereunder. A summary of the number of such descriptions is given below for several years:

TABLE 6.—COMPARISON OF VARIOUS CLASSIFICATIONS ADOPTED BY THE SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION AND IN EFFECT DURING THE YEARS NAMED.

Years.	Total number of classifications.		Classified as L. C. T. and C. L. quantities at same rating.		Classified as L. C. T. and C. L. quantities at lower rating.		Classified as C. L. with no rating for L. C. T.		Percentage of total number of classifications in each class.													Summary.			
	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	Classes.											Total percentage third class and higher.	Total percentage lower than third class.				
									1	2	3	4	5	6	A	B	C	D	E			F	G	H	Special.
1876	893	100.00	840	94.07	47	5.26	6	0.67	32.02	16.91	12.34	15.11	14.26	3.30	1.06	0.45	0.09	1.18	0.18	0.18	0.18	0.09	5.00	61.27	38.73
1880	983	100.00	829	84.33	117	11.90	37	3.77	26.18	12.55	14.55	15.00	19.45	6.64	0.55	0.59	0.30	0.59	0.44	0.15	0.08	2.73	53.28	46.72	
1887	1,177	100.00	966	82.07	175	14.87	36	3.06	27.52	15.09	14.05	13.31	15.53	8.95	1.18	0.59	0.30	0.59	0.44	0.15	0.08	2.22	56.66	43.34	
1893	1,752	100.00	1,437	82.02	270	15.41	45	2.57	24.09	15.38	14.59	14.54	12.27	12.76	2.27	0.64	0.30	0.84	0.54	0.10	0.05	1.63	54.06	45.94	

From the foregoing it is shown that 82 per cent of the articles are now classified at less than carload quantities only, and that 17.98 per cent are assigned a carload rating. The latter proportion is observed to be relatively lower than for either of the other classifications for which data has been given. The rate reductions will be more fully illustrated by table following, which shows the changes between two important points in this section. The arrangement of the table permits of a comparison of changes in the classification and also of the rate changes.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 7.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1876, 1880, 1887, AND 1893, IN THE TERRITORY GOVERNED BY SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION. RATES USED ARE IN CENTS PER 100 POUNDS FROM LOUISVILLE, KY., TO ATLANTA, GA., AS FOLLOWS:

	1	2	3	4	5	6	A	B	C	D	E	F	G	H
1876	150	125	100	85	58	46	..	85	73	..	..	132	...	..
1880	119	104	89	76	61	46	28	47	43	38	52	81	138	71
1887	107	92	81	68	56	46	28	36	31	27	48	54	...	53
1893	107	92	81	68	56	46	28	35	28	24	48	48	...	53

Commodities.	Louisville, Ky., to Atlanta, Ga.							
	Class.				Rates in cents per 100 pounds.			
	1876	1880	1887	1893	1876	1880	1887	1893
Agricultural implements, C. L.	A	.....	5	6	.....	.....	56	46
Agricultural implements, L. C. L., as follows:								
Harrow teeth, packed	1½	.....	4	6	225	.....	68	46
Shellers, corn, packed	1	2	1	2	150	104	107	92
Spreaders, manure, K. D. ....	.....	.....	2	3	.....	.....	92	81
Babbitt, metal, C. L.	2	4	4	4	125	76	68	68
Barley, L. C. L.	5	D	6	D	58	38	46	24
Barrels, half barrels, and kegs, except ale and beer, empty, C. L.	A	4	4	6	.....	76	68	46
Batting, cotton, N. O. S.	D1	D1	D1	2	300	238	214	92
pressed in bales	D1	D1	D1	4	300	238	214	68
Bells, cast iron, L. C. L.	2	2	2	3	125	104	92	81
C. L.	2	2	2	5	125	104	92	56
Bluing liquid, in glass, packed .....	.....	1	1	2	.....	119	107	92
Blue, stone, in barrels or casks	4	5	5	6	85	61	56	46
Boilers, engines, or parts thereof, C. L. ....	.....	.....	5	6	.....	.....	56	46
Boots, and in cases, C. L.	1	1	1	2	150	119	107	92
Brimstone in barrels, L. C. L.	4	5	3	5	85	61	81	56
Brooms, C. L.	1	1	1	2	150	119	107	92
Burlaps	5	5	6	A	58	61	46	28
Canned goods, N. O. S., C. L.	4	4	4	5	85	76	68	56
Cider, in wood, O. R. B. L., or spoiling	5	5	2	5	58	61	92	56
Coffee, green, in double sacks	5	6	6	6	58	46	46	46
Creameries, packed or wrapped .....	.....	.....	D1	3	.....	.....	214	81
Dry goods made wholly of cotton, viz: calicoes, cotton flannels, cotton rope or twine, drills, etc., L. C. L.	1	1	3	5	150	119	81	56
Drugs and medicine, N. O. S.	1	1	1	1	150	119	107	107
Dry goods, same as above, C. L.	1	1	4	5	150	119	68	56
Dye stuff, N. O. S., dry, in barrels	1	1	1	1	150	119	107	107
Excelsior, pressed in bales, C. L.	3	3	4	6	100	89	68	46
Facings, coal and iron, in barrels, L. C. L.	4	4	4	6	85	76	68	46
C. L.	4	4	4	A	85	76	68	28
Felting	2	2	2	3	125	104	92	81
Fish, in cans, boxed, C. L.	5	5	4	5	58	61	68	56
Fittings, iron pipe, in bundles, wired, L. C. L. ....	.....	.....	D1	3	.....	.....	214	81
Foil, tin, in boxes	2	2	1	2	125	104	107	92
Freezers, ice cream	1	1	1	3	150	119	107	81
Fruit in cans, boxed, N. O. S. C. L.	4	4	4	5	85	76	68	56
Fruit, green, N. O. S., prepaid, guaranteed	2	3	3	6	125	89	81	46
Fuse	1	1	D 1	1	150	119	214	107
Glassware, common, N. O. S. C. L.	3	2	3	3	100	104	81	81
Glue, scrap .....	.....	.....	5	6	.....	.....	56	46
Grindstones, unmounted, C. L.	5	5	6	A	58	61	46	28

TABLE 7.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1876, 1880, 1887, AND 1893, ETC.—Continued.

Commodities.	Louisville, Ky., to Atlanta, Ga.							
	Class.				Rates in cents per 100 pounds.			
	1876	1880	1887	1893	1876	1880	1887	1893
Groceries, N. O. S.....	2	2	2	2	125	104	92	92
Handles, N. O. S., boxed or crated.....	5	5	4	4	58	61	68	68
Hardware, N. O. S., boxed.....	2	2	2	2	125	104	92	92
Hessians, in original bales.....			6	A			46	28
Hides, dry, in bales.....	3	3	3	4	100	89	81	68
compressed.....	4	4	4	5	85	76	68	56
green.....	4	4	4	5	85	76	68	56
salted.....		5	5	6		61	56	46
Hinges and nooks, in bbls. or casks.....	4	3	3	5	85	89	81	56
Iron roofing, N. O. S.....	2	6	3	6	125	46	81	46
Jellies, in cans, boxed, C. L.....	3	4	4	5	100	76	68	56
Logwood, extract, in bbls. or casks.....	2	2	2	5	125	104	92	56
Machinery, all kinds, C. L.....	4	5	5	6	85	61	56	46
Matches, C. L.....	1	1	1	3	150	119	107	81
Meal, oat, in boxes, L. C. L.....			2	4			92	68
C. L.....			2	C			92	28
Milk, condensed, boxed, C. L.....	4	4	4	5	85	76	68	56
Moss, pressed in bales, C. L.....	3	3	4	4	100	89	68	68
Pins, clothes, boxed, L. C. L.....	2	2	2	3	125	104	92	81
C. L.....	2	2	2	5	125	104	92	56
Plaster, calcined, C. L.....			6	A			46	28
Plaster of Paris, C. L.....	5	5	6	A	58	61	46	28
Plumbago (ship's option), in sacks, bbls. or box.....		5	5	6		61	56	46
Radiators, steam, packed, L. C. L.....		4	3	4		76	81	68
C. L.....		4	3	5		76	81	56
Rice, rough.....	5	5	5	D	58	61	56	24
Roots and herbs, value not over 6 cents per pound, L. C. L.....		3	4	5		89	68	56
Roots and herbs, value not over 6 cents per pound, C. L.....		3	4	6		89	68	46
Rope, N. O. S., L. C. L.....	4	3	3	4	85	89	81	68
C. L.....	4	3	3	6	85	89	81	46
bed cord, L. C. L.....	4	3	3	4	85	89	81	68
C. L.....	4	3	3	6	85	89	81	46
clothes line, L. C. L.....	2	3	3	4	125	89	81	68
C. L.....	2	3	3	6	125	89	81	46
wire.....	4	4	4	5	85	76	68	56
Saddlery, horse collars, bark or shuck.....	2	2	2	4	125	104	92	68
Seed, garden, C. L.....	1	2	2	4	150	104	92	68
millet, C. L.....			3	6			81	46
sorghum, C. L.....			2	6			92	46
Shot, in kegs, or doubled sacked.....	4	5	5	6	85	61	56	46
Slates, school, L. C. L.....	3	3	2	3	100	89	92	81
C. L.....	3	3	2	4	100	89	92	68
Starch, except corn starch.....	4	4	4	5	85	76	68	56
Sulphur, in barrels, L. C. L.....	4	4	3	5	85	76	81	56
Tallow, in barrels.....	4	5	B	B	85	61	36	35
Tacks, iron, in kegs.....	3	3	2	5	100	89	92	56
Tar, coal, in barrels, L. C. L.....	5	5	5	6	58	61	56	46
Tin plate, in boxes, O. R. wet rust and damage to tin or packing, C. L.....	3	5	5	6	100	61	56	46
Waters, mineral, in wood, C. L.....	5	4	5	5	58	76	56	56
Wheat, cracked, in barrels, C. L.....			5	6			56	46
boxes, L. C. L.....			2	5			92	56
C. L.....			2	5			92	56
Whiting, in barrels.....	4	5	5	6	85	61	56	46
Wool, mineral.....			1	2			107	92
Zinc, oxide.....		5	3	5		61	81	56

CHANGES IN COMPETITIVE RATES.

The through or competitive traffic of the United States is divided into several well-defined sections, the rate-making basis of each of which, as well as the competition, is distinctive in many features. Briefly described these sections are as follows:

(1) The territory north of the Ohio and Potomac rivers and east of Chicago and the Mississippi River.

(2) The territory south of the Ohio and Potomac rivers and east of the Mississippi River.

(3) The territory west of Chicago and the Mississippi River.

(4) Competitive traffic to and from Pacific coast.

In each of these sections the traffic is divided into several general descriptions, distinguishable by the character of the commodities, the direction of movement, and the operation of freight associations. For each the more important rates have been selected and such data given as will most fully present the tendency of the changes.

**CHANGES IN RATES ON TRAFFIC FROM EASTERN SEABOARD CITIES
TO WESTERN COMPETITIVE POINTS, VIA ALL-RAIL ROUTES.**

Before proceeding to a study of the changes in the rates as shown by the tables for this traffic it is important that the methods under which the schedules are constructed should be first explained.

Freight tariffs covering the traffic from the eastern seaboard territory to western points are established under the rules and regulations of the associations known as the Trunk Line and Central Traffic Associations, the former embraces the important roads leading from the eastern seaboard to Buffalo, Erie, Salamanca, Pittsburg, Parkersburg, and Wheeling, which points are known as the western termini of the trunk lines, and are also the eastern termini of roads in the Central Traffic Association. Under agreements of several years standing it has been the custom of these roads, forming by connections through lines from the seaboard to the West, to determine through rates from New York to Chicago, and to adopt such rates as the standard or basis for the construction of tariffs from other eastern cities and points adjacent thereto, which are directly or indirectly in competition for western business.

The principal seaboard cities are, New York, Boston, Philadelphia and Baltimore, and adjacent to each of these are important industries commanding for the points at which they are located equal transportation rates and facilities with the larger cities. For twenty years or more the rates from Boston to Western competitive points have been the same as from New York. From Philadelphia and Baltimore the rates are "agreed differentials" less than New York, the Baltimore rates being also lower than Philadelphia rates.

The westward traffic from the seaboard is carried principally under classified tariffs. The number of classes and the rates for each as now in effect are shown in the following table:

TABLE 8.—WEST BOUND RATES, SEABOARD CITIES TO CHICAGO.

	Classes in cents per 100 pounds.					
	1	2	3	4	5	6
From New York to Chicago	75	65	50	35	30	25
From Boston to Chicago	75	65	50	35	30	25
From Philadelphia to Chicago	69	59	48	33	28	23
Philadelphia lower than New York	6	6	2	2	2	2
From Baltimore to Chicago	67	57	47	32	27	22
Baltimore lower than New York	8	8	3	3	3	3
Baltimore lower than Philadelphia	2	2	1	1	1	1

It is not known what differentials were allowed Philadelphia and Baltimore prior to 1875. It is found that the differences in 1875 were as follows:

TABLE 9.—WEST BOUND DIFFERENTIALS.

	Classes in cents per 100 pounds.				
	1	2	3	4	5
Philadelphia (lower than New York rates)	7	7	6	4	3
Baltimore (lower than New York rates)	10	9	8	6	5

In 1876 the system of determining the differentials was from time to time modified. Fixed differentials were again reestablished in 1877. Those shown in connection with the table of rates above have been continuously in effect since that time and may, for the purposes of studying the rates herein presented, be considered as applicable to the entire period covered.

Under existing arrangements the roads leading from the East publish rates and issue through bills of lading to all western points located on the railroads within the territory west of Buffalo and Pittsburg, east of the Mississippi and north of the Ohio rivers. The agreed rates and distances from New York to Chicago are taken as the standard, or 100 per cent. Through rates to the principal western cities, towns, and junction points in the territory above described are computed at a percentage of the New York-Chicago rates, based generally on the relative mileage of such points to the Chicago mileage. For example, rates New York to Detroit, Mich., are computed at 78 per cent of the rate New York to Chicago. In the same manner rates New York to Indianapolis, Ind., are 93 per cent of the New York-Chicago rates; Cincinnati, O., 87 per cent; Erie, Penn., 60 per cent; Columbus, O., 77 per cent; Cleveland, O., 71 per cent; St. Louis, Mo., 116 per cent. Thus the New York-Chicago rates being at all times applied as the basis would, when changed, create relative changes in the rates to the other western points. In a similar manner the relation as to rates is maintained from the other eastern cities. When rates from New York to western points are changed like changes are made from Boston, Philadelphia, and Baltimore, and points receiving the same rates, the "differentials" as between the eastern cities being at all times maintained.

The general basis for the construction of tariffs as here described from New York and other eastern cities to Chicago and other western points indicated, has been practically the same for years. With this explanation the tables presenting rates from New York may be accepted as indicating the changes from Boston, Philadelphia and Baltimore.

STANDARD AND DIFFERENTIAL ROUTES.

An important element in the arrangement of rate schedules is the distinction made in the class of railroads or routes, by which certain routes are under agreement allowed to charge lower rates than others to the same points of destination. This is another feature of the "differential" plan, and has within recent years been extensively applied in the territory now under consideration. From each of the eastern cities there are two classes of roads, which are commonly termed the "standard lines" and the "differential lines." The standard lines are those which are conceded to possess advantages over their competitors by reason of shorter all-rail distance, and superior facilities arising from old and well-established connections and freight organizations. The differential lines are those which, on account of the longer routes and inadequate facilities, or owing to their through routes being partly by water, or from other disadvantages, cannot command, at even rates with the more direct lines an amount of tonnage which under customary methods for determining such matters would be considered a fair proportion. With a view to equalizing these conditions, and securing the permanency of the tariffs, as well as to bring about a fair distribution of the traffic, the "differential lines" are accorded somewhat lower rates than the "standard lines." At this time there are ten different lines leading from New York competing for western business. The rates upon classified traffic, New York to Chicago, as now established by each of these lines are as follows:

TABLE 10.—WEST BOUND RATES, NEW YORK TO CHICAGO BY VARIOUS ROUTES.

	Classes (in cents per 100 pounds).					
	1.	2.	3.	4.	5.	6.
Standard lines:						
New York Central and Hudson River Railroad	75	65	50	35	30	25
Pennsylvania Railroad						
Baltimore and Ohio Railroad						
Differential lines:						
New York, Lake Erie and Western Railroad	70	61	47	33	29	24
Lehigh Valley Railroad						
West Shore Railroad						
Delaware, Lackawanna and Western Railroad	67	59	46	32	27	33
New York, Ontario and Western Railroad	65	57	44	31	26	22
Chesapeake and Ohio Railway Route	60	53	41	29	25	21
Central Vermont Railroad Route						

From other eastern cities similar arrangements exist, under which certain routes charge lower or differential rates.

The data presented by the tables following, covering all-rail rates, has been obtained from the older established companies whose records were found more complete in this respect; such companies are the standard lines under the system just described. Their rates are standard and are higher than those of the differential lines. This should be borne in mind when the tables are studied for the years subsequent to 1881, as since that time traffic of the different classes and commodities appearing in the tables was taken at lower rates when carried by any of

the roads known as the differential lines. A statement covering the changes of each line, if such data were procurable, would present more fully the actual changes which have taken place. It does not, however, appear necessary to enlarge the report on this account, as under the methods described for constructing the rates the changes from New York may be accepted as representing the changes from all other eastern cities, both for the standard and differential lines.

TABLE 11.—RATES OF FREIGHT ON CLASSIFIED TRAFFIC VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

NOTE.—The rates shown are those of the standard lines under the freight classifications from time to time prevailing. Rates from Boston have been the same. Philadelphia and Baltimore were lower by amount of differentials. Certain routes charge lower rates.

Date.	Classes (rates in cents per 100 pounds).						Date.	Classes (rates in cents per 100 pounds).					
	1.	2.	3.	4.	5.	Sp'l or 6.		1.	2.	3.	4.	5.	Sp'l or 6.
1862—Jan. 1	160	128	107	66	.....	.....	1872—Oct. 14.....	125	110	85	65	50	.....
Apr. 7.....	149	117	85	50	.....	.....	1873—Apr. 14.....	100	90	75	60	45	.....
Oct. 9.....	180	150	125	75	.....	.....	June 11.....	75	70	60	45	35	.....
1863—May 14.....	160	117	94	55	.....	.....	Aug. 11.....	40	40	30	30	30	.....
Oct. 5.....	160	128	107	66	.....	.....	Aug. 13.....	27	27	18	18	17	.....
Nov. 23.....	180	150	124	85	.....	.....	Dec. 1.....	75	70	60	45	35	.....
1864—July 25.....	200	166	111	85	.....	.....	1874—Jan. 1.....	100	90	75	60	45	.....
Sept. 20.....	215	180	120	96	.....	.....	Aug. 3.....	75	70	60	45	35	.....
1865—May 8.....	215	180	106	96	.....	.....	1875—Jan. 20.....	100	90	75	60	45	.....
Oct. 16.....	215	180	90	82	.....	.....	Mar. 17.....	75	70	60	45	35	.....
1866—Feb. 5.....	215	170	82	82	.....	.....	Apr. 6.....	60	55	50	40	30	.....
Mar. 5.....	188	160	127	82	.....	.....	May 18.....	40	40	35	35	25	.....
1867—Nov. 5.....	202	170	138	86	.....	.....	Aug. 12.....	50	40	30	25	20	.....
1868—June 4.....	188	160	127	82	.....	.....	Nov. 15.....	75	70	60	45	35	.....
Aug. 10.....	149	128	120	82	.....	.....	Dec. 22.....	30	25	20	20	15	.....
Sept. 7.....	188	160	127	82	.....	.....	1876—Jan. 10.....	75	70	60	45	35	.....
Oct. 1.....	70	60	55	50	.....	.....	June 12.....	25	25	25	16	16	.....
Dec. 7.....	202	170	138	86	.....	.....	July 28.....	15	15	15	10	10	.....
1869—Feb. 1.....	188	160	127	82	55	.....	Dec. 18.....	50	45	40	30	25	.....
Feb. 7.....	45	45	45	45	45	.....	1877—Mar. 12.....	75	70	60	45	35	.....
Mar. 15.....	160	160	127	82	55	.....	Oct. 8.....	75	70	60	40	.....	.....
July 1.....	188	160	127	82	55	.....	Oct. 22.....	100	90	75	45	.....	.....
Aug. 11.....	25	25	25	25	25	.....	Dec. 10.....	100	80	60	45	.....	.....
Aug. 23.....	38	38	38	38	38	.....	1878—Feb. 15.....	75	60	50	40	.....	.....
Aug. 30.....	43	43	43	43	43	.....	1881—Aug. 6.....	45	32	26	19	.....	.....
Sept. 22.....	40	40	40	40	40	.....	Nov. 14.....	60	50	40	28	.....	.....
Sept. 24.....	35	35	35	35	35	.....	1882—Jan. 24.....	45	32	26	19	.....	.....
Oct. 4.....	50	50	50	50	50	.....	July 1.....	60	50	40	30	25	.....
Oct. 9.....	75	75	75	75	50	.....	Nov. 1.....	75	60	45	35	.....	.....
Nov. 1.....	140	125	100	80	50	.....	1883—June 22.....	75	60	45	35	25	.....
Nov. 29.....	150	130	100	80	55	.....	1885—Jan. 26.....	50	40	30	25	18	.....
1870—Apr. 14.....	140	125	100	80	50	.....	Oct. 5.....	60	50	40	25	.....	20
May 4.....	150	130	100	80	55	.....	Nov. 18.....	75	60	45	35	.....	25
June 18.....	112	90	90	55	45	37	1887—Apr. 1.....	75	65	50	35	30	25
July 13.....	80	70	60	50	35	42	1888—Jan. 9.....	75	65	50	38½	33	27½
July 18.....	75	70	60	50	42	35	Mar. 5.....	75	65	50	35	30	25
July 21.....	65	60	60	50	42	35	Nov. 12.....	50	40	35	30	25	20
July 25.....	65	60	55	45	35	40	Dec. 17*.....	75	65	50	35	30	25
July 28.....	50	50	50	45	35	40							
Aug. 12.....	50	50	50	50	40	.....							
Aug. 22.....	100	90	70	55	45	.....							
Sept. 8.....	125	110	85	65	50	.....							
Nov. 28.....	160	130	100	65	50	.....							
Dec. 26.....	180	150	120	80	60	.....							
1871—Feb. 20.....	150	130	100	70	55	.....							
Mar. 7.....	100	90	70	55	45	.....							
May 18.....	75	65	50	45	37	.....							
June 1.....	100	90	70	55	45	.....							
July 8.....	75	65	50	45	37	.....							
July 28.....	45	45	45	45	32	.....							
Aug. 16.....	40	40	40	40	28	.....							
Aug. 21.....	35	35	35	35	26	.....							
Sept. 1.....	30	30	30	30	24	.....							
Nov. 27.....	100	90	70	55	45	.....							
Dec. 15.....	125	110	85	65	50	.....							
1872—Aug. 1.....	75	70	60	45	35	.....							
Sept. 1.....	125	110	85	65	50	.....							
Sept. 2.....	100	90	70	55	45	.....							

* In effect January 1, 1893.

By this table is shown the changes in the rates of the several classes of freight from New York to Chicago from 1862 to the present time. The freight charges between the two most important shipping centers in the country are here presented for thirty years—a longer period than has ever previously appeared in one table.

Absence of knowledge of the circumstances under which the varying rates of the different years were established precludes the adoption of any form of analysis which could be applied to the whole period. The character of the rates of certain years might be easily traced to the events of those years notably affecting the transportation interests; 1864 and 1865 were years near the end of and just after the war. In 1877 the Trunk Line Association was formed, and in 1887 the Act to Regulate Commerce was passed. For these years higher rates are observed.

During the summer months the all-rail lines are in competition with the lake-and-rail and canal-and-lake routes, to which competition has frequently been attributed the low all-rail rates; reductions by the latter at such times being necessary to retain a share of the business. While this may explain the changes in many of the years, it loses force when applied to such years as 1869–1875, and 1882, when the low rates were charged on dates on which the lake routes were closed.

In part only the foregoing may indicate the causes for changes in different years. Throughout the table may be recognized “war periods,” which for the purpose of comparison it would be well to eliminate, if this could be correctly done, as only in this way may the changes in the normal rates of each class and commodity be shown. The rates of the table, however, represent figures at which an enormous traffic was carried, and although not in all cases appearing upon the published schedules they were obtained from reliable sources, are accurate, and should be permitted to remain in the tables for what they are worth.

It would be of interest to know the exact causes leading to the important fluctuations of each year, and it is to be regretted that the necessary information for this purpose is not at hand. For the present, at least, we shall have to be content with the reasons frequently advanced, viz, that when low rates prevailed the cause has been “active competition,” or a “rate war,” and when advanced they were simply “restored” to what was at the time considered the “normal basis.”

While the extent of the variations are shown, the *tendency* of the changes may not readily be determined by the figures of Table 1, in the absence of knowledge as to what were the normal rates; the latter might be assumed to be highest rates or the rates prevailing for the longest period. While such a rule could well be applied to the rates of 1868, for example, when \$2.02 first class per 100 pounds continued in effect for five months and was again restored after a period of lower rates, the same rule could not govern for 1869, during which there were thirteen changes and rates approaching the highest were in effect for an equal period.

The comparison which shall show the tendency of the changes must therefore be made upon a basis having the merits of equality. For this purpose the system of averages and percentages has been adopted, as shown by Tables 13 and 14.

While the presentation now made will be of interest, historically at least, it must be admitted that the tables furnish only a proximate basis for comparison, owing to the fact that in former years the methods of the carriers were such that the instances where the published tariff was charged were rather the exception than the rule. The devices for the secret lowering of rates to shippers commonly resorted to,

in previous years were innumerable. The secret rates or reductions by rebates of one road were generally based upon the actual or assumed rates of a competitor, and while the rates of all ultimately fell to the same level and became the open rate, for a time at least, charges were made by some differing materially from any rates of record.

Before passing to Tables 13 and 14 it may be interesting to notice some of the extreme changes appearing in the preceding table. We find the highest and lowest rates as follows:

TABLE 12.—HIGHEST AND LOWEST WEST BOUND RATES.

	Cents per 100 pounds.	
	Highest.	Lowest.
Class 1.....	1864 and 1865....\$2. 15	\$0. 15 in 1876
Class 2.....	1864 and 1865.... 1. 80	. 15 in 1876
Class 3.....	1867..... 1. 38	. 15 in 1876
Class 4.....	1864 and 1865.... .96	. 10 in 1876
Class 5.....	1870..... .60	. 10 in 1876

For the years prior to 1868 changes do not appear to have been made as often as in years following. In October, 1868, a reduction from \$1.88 to 70 cents was made, the latter rate continuing until December 7, or two months. At no time in the previous six years had the first-class rate been lower than \$1.49, and for most of this time the normal rate had been nearer \$2. The year 1869 was conspicuous for sharp fluctuations, with a rate at the beginning of the year of \$2.02 first class, which was reduced on February 1 to \$1.88, and again on the 17th of the same month to 45 cents. The latter was equivalent to a decline of 75 per cent on first class and about 50 per cent on fourth class. By this schedule it will be seen that the same rate was charged upon all classes. Here for the first time it is noticed that the principles of classification are entirely set aside.

In March the rates were advanced as abruptly as they declined, and in July \$1.88 was again reached. In August a rate of 25 cents was established for all classes, the lowest rate from 1862 to 1876. This rate (August, 1869) was advanced on different dates during August, September, October, and November, until the \$1.50 basis was reached. In 1870 important reductions were made, followed by advances to the \$1.80 basis in December, which was again reduced to \$1.50 in February, 1871. During the summer of 1871 rates were very low and again the classification was ignored. In December the \$1.25 basis was resumed, and after reductions, again adopted in October, 1872, continuing until April, 1873, after which date no higher basis than \$1 was reached. In August, September, October, November, and part of December, 1873, a 27-cent first-class and 17-cent fifth-class basis was charged, which were unusually low rates. The rates for 1874 and 1875 were comparatively better.

The rates of 1876 were far below the rates known to have been charged at any time within the periods covered by the table. In 1877 the 75-cent basis was restored, and in October of the same year the classification was reduced to four classes. In December the \$1 basis was established, which lasted until February 15, 1878, when the 75-cent basis was again made effective. These rates continued in effect until August, 1881, three years and a half, an unusually long period. The

rates of 1881 and 1882 were low; 1883 and 1884 the rates were higher and more steady; 1885 rates were low. From 1886 to the present time the class rates have been practically on the same basis. These comments relate principally to first class, and apply generally to all, although the class relations were not always maintained by the changes. At times there were only four classes and at others five or six. Lower rates usually followed the introduction of new classes.

TABLE 13.—AVERAGE RATES ON CLASSIFIED TRAFFIC, VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

Date.	Classes (rates in cents per 100 pounds).						Date.	Classes (rates in cents per 100 pounds).					
	1.	2.	3.	4.	5.	6 or spe'l.		1.	2.	3.	4.	5.	6 or spe'l.
1862	159	127	100	60	.....	.....	1881	65	51	42	33	.....	.....
1863	169	134	110	67	.....	.....	1882	56	44	35	26	.....	.....
1864	193	161	121	87	.....	.....	1883	75	60	45	35	.....	.....
1865	215	180	107	93	.....	.....	1884	75	60	45	35	25	.....
1866	193	163	120	82	.....	.....	1885	56	45	34	27	.....	.....
1867	190	162	129	83	.....	.....	1886	75	60	45	35	.....	25
1868	170	144	119	78	.....	.....	1887	75	64	49	35	.....	25
1869	132	122	100	72	.....	.....	1888	73	63	49	35	30	25
1870	130	113	90	69	50	.....	1889	75	65	50	35	30	25
1871	90	79	65	51	40	.....	1890	75	65	50	35	30	25
1872	118	104	81	62	48	.....	1891	75	65	50	35	30	25
1873	78	71	57	45	35	.....	1892	75	65	50	35	30	25
1874	90	82	69	54	41	.....							
1875	61	55	46	38	29	.....							
1876	43	41	36	26	22	.....							
1877	75	68	58	42	.....	.....							
1878	78	62	51	41	.....	.....							
1879	75	60	50	40	.....	.....							
1880	75	60	50	40	.....	.....							

This table gives the average rate of each class, New York to Chicago, for each year. These averages are obtained by multiplying the rates by the number of days each were in effect and dividing the sum of the multiples by the number of days in the year. This method is thought to be fairly accurate, and is undoubtedly the best available when it is impossible to obtain tonnage statistics showing the exact quantity of traffic carried at the separate rates. The next table will show the percentage or ratio of change in the yearly class averages given above. For this purpose the rates of 1867 are counted as 100, and the rates of the years following are expressed in percentages of the rates of 1867. Thus, in 1892 the first-class rate was 39.47 per cent of the rates of 1867; or, in other words, the same weight of freight may be now carried from New York to Chicago for 39 cents as was charged \$1 in 1867.

TABLE 14.—PERCENTAGES OF THE YEARLY AVERAGE RATES ON CLASSIFIED TRAFFIC, NEW YORK TO CHICAGO.

Date.	Classes.					
	1.	2.	3.	4.	5.	6.
1867.....	100	100	100	100	.....	.....
1868.....	89.47	88.89	92.25	93.98	.....	.....
1869.....	69.47	75.31	77.52	86.75	.....	.....
1870.....	68.42	69.75	69.77	83.13	100	.....
1871.....	47.37	48.77	50.39	61.45	80	.....
1872.....	62.11	64.20	62.79	74.70	96	.....
1873.....	41.05	43.83	44.19	54.22	70	.....
1874.....	47.37	50.62	53.49	65.06	82	.....
1875.....	32.11	33.95	35.66	45.78	58	.....
1876.....	22.63	25.31	27.91	31.33	44	.....
1877.....	39.47	41.98	41.96	50.60	.....	.....
1878.....	41.05	38.27	39.53	49.40	.....	.....
1879.....	39.47	37.04	38.76	48.19	.....	.....
1880.....	39.47	37.04	38.76	48.19	.....	.....
1881.....	34.21	31.48	32.56	39.76	.....	.....
1882.....	29.47	27.16	27.13	31.33	.....	.....
1883.....	39.47	37.04	34.88	42.17	.....	.....
1884.....	39.47	37.04	34.88	42.17	50	.....
1885.....	29.47	27.78	26.36	32.53	.....	.....
1886.....	39.47	37.04	34.88	42.17	.....	.....
1887.....	39.47	39.51	37.98	42.17	.....	.....
1888.....	38.42	38.89	37.98	42.17	60	.....
1889.....	39.47	40.12	38.76	42.17	60	.....
1890.....	39.47	40.12	38.76	42.17	60	.....
1891.....	39.47	40.12	38.76	42.17	60	.....
1892.....	39.47	40.12	38.76	42.17	60	.....

By this arrangement of the tables it may be seen at a glance what general changes have taken place. In many of the earlier years lower rates for some classes are noticed than have been charged since 1887. A study of the tables, however, will give prominence to the fact that the basis is now lower. In support of this conclusion it must be remembered that there is now a permanent fifth and sixth class, each of which has rates lower than was formerly charged for fourth class.

The yearly tonnage forwarded by the trunk lines from New York to and beyond the western termini of each shows a marked increase; the shipments for 1892 were 38 per cent higher than in 1886. The business for several years is shown in the table next given:

TABLE 15.—WEST BOUND TONNAGE.

	Tons.
1878.....	715,808
1879.....	803,770
1880.....	986,013
1881.....	1,198,097
1882.....	1,363,708
1883.....	997,645
1884.....	1,115,052
1885.....	1,194,350
1886.....	1,125,417
1887.....	1,314,254
1888.....	1,335,343
1889.....	1,219,769
1890.....	1,405,352
1891.....	1,465,094
1892.....	1,551,357

The proportions carried in the respective classes during these years were as follows:

TABLE 16.—PER CENT OF TONNAGE IN EACH CLASS.

Class.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
1	30.4	31.3	26.4	25.1	23.1	29.5	25.6	24.8	23.3	18.9	19.3	22.2	21.0	19.4	19.9
2	6.9	7.2	6.7	6.4	6.2	8.0	7.6	7.1	7.9	7.5	7.2	6.9	6.4	5.7	5.4
3	4.8	5.0	4.4	5.1	4.2	4.9	4.1	4.2	5.2	8.1	10.4	12.8	12.3	11.4	11.3
4	57.9	48.7	50.1	53.7	58.9	42.8	32.9	29.3	20.9	14.1	13.5	13.0	12.7	11.1	10.4
5	0.0	6.5	10.6	9.7	7.6	14.8	29.8	34.6	42.7	16.1	9.2	7.8	10.0	9.1	9.6
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	35.3	40.4	37.3	37.6	43.3	43.4
Special	0.0	1.3	1.8	0.0	0.0	0.0	0.0	0.0	.....	.....	.....	.....	.....	.....	.....
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

The principal purpose served by the introduction of the latter table is to point out that about sixty per cent of the tonnage is now carried in the fourth, fifth, and sixth classes, the rates of which are 35, 30, and 25 cents per 100 pounds, respectively, New York to Chicago. Prior to 1886 no considerable number of articles were permanently assigned to fifth and sixth classes; they embraced usually a few commodities which had been assigned a special rate, which rate was seldom lower than 35 cents per 100 pounds, and often higher. It has been shown from an analysis of the freight classifications that 47 per cent of the descriptions in the classification now applying westward from the seaboard are found in the fourth and lower classes, and the tonnage of the same classes from New York is 60 per cent of the total traffic. The traffic represented by these figures now permanently receive lower rates than in 1886. Similar results would appear from an analysis of the rates and classification applying from other seaboard cities to the West.

The foregoing tables of rates, it will be noticed, refer to the yearly averages of the different classes. In order to ascertain the changes upon the entire traffic of all classes from New York, the following table has been compiled, by which is shown the monthly average rates for each year on the traffic from New York from 1878 to 1892, inclusive, and the yearly averages are given for the years 1886 to 1892, inclusive. These average rates, it should be explained, are arrived at on the assumption that all traffic from New York was destined to Chicago, and carried at the prevailing tariff rates for the years given. This rule is applied throughout the table, and when it is recalled that rates to all destinations east of the Mississippi River are made proportionate to the New York-Chicago rate, results sufficiently accurate are obtained to illustrate the charges for all traffic from the seaboard to western points other than Chicago, to which rates are made by the trunk lines.

Especial attention is directed to this table, as it contains rates representative of a traffic more extensive than is carried under any other set of competitive rates in the United States.

TABLE 17.—AVERAGE RATES PER HUNDRED POUNDS CHARGED TO CHICAGO, ILL., DURING EACH MONTH, 1878 TO 1892, INCLUSIVE, UPON FREIGHT FROM NEW YORK, N. Y., TO POINTS BEYOND TRUNK LINE TERMINI.

Month.	Year (average rate in cents per 100 pounds).														
	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892
January.....	64	53	47	49	23	47	45	40	43	40	45	45	43	43	41
February.....	60	55	49	51	26	49	47	30	45	40	47	45	43	45	42
March.....	55	55	51	51	26	49	47	30	45	38	47	43	40	41	43
April.....	53	55	51	49	26	47	45	30	45	45	40	43	40	39	42
May.....	51	53	47	49	26	47	43	30	43	40	43	45	43	40	41
June.....	51	53	47	47	26	45	43	23	40	43	40	43	43	40	39
July.....	51	53	49	49	38	45	45	23	43	43	40	47	45	42	41
August.....	53	55	53	30	38	47	47	26	43	40	43	45	43	43	42
September.....	53	55	53	26	38	47	45	23	43	40	40	43	43	42	42
October.....	53	49	51	26	43	45	45	32	40	40	43	45	45	42	42
November.....	51	47	51	26	49	45	45	38	38	40	33	43	43	41	42
December.....	51	45	49	26	47	43	45	45	40	43	33	43	43	42	41
Average yearly rate.....	53.7	51.9	49.9	37.5	29.4	47.7	44.6	30.1	42.6	41.0	41.0	43.7	42.9	41.4	41.5

Applying to a number of commodities the same plan for computation of averages and percentages as shown above by Tables 13 and 14 for classes, similar results as to the extent of the reductions are obtained. Tables 18 and 19 next following present the yearly average charges and percentages for a number of selected articles; reference to each will show the rates to be upon a much lower basis in the more recent years than formerly. It will also be noticed that the majority have now been assigned a separate car-load rating, where in previous years this distinction was not made and the the shipments in carload quantities were taken at higher rates. An extended analysis of the changes in each article appears unnecessary, as the tables fully present the reductions.

TABLE 18.—AVERAGE RATES ON VARIOUS COMMODITIES,

Year.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
										Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1867	190	190	190	190	190	190	190	162	162	162	162	129	129	162	162	190	83	83
1868	170	170	170	170	170	170	170	.....	.....	144	144	78	78	122	122	170	.....	.....
1869	132	132	132	132	132	132	132	.....	.....	122	122	72	72	100	100	132	.....	.....
1870	130	130	130	130	130	130	130	.....	.....	113	113	69	69	90	90	130	.....	.....
1871	90	90	90	90	90	90	90	40	40	79	79	51	51	65	65	90	40	40
1872	118	118	118	118	118	118	118	48	48	104	104	62	62	81	81	118	48	48
1873	78	78	78	78	78	78	78	35	35	71	71	45	45	57	57	78	35	35
1874	90	90	90	90	90	90	90	41	41	82	82	54	54	69	69	90	41	41
1875	61	61	61	61	61	61	61	28	28	55	55	38	38	46	46	61	28	28
1876	43	43	43	43	43	43	43	22	22	41	41	26	26	36	36	43	22	22
1877	75	75	75	75	75	75	63	35	35	68	68	42	42	52	52	75	35	35
1878	78	78	78	78	78	78	41	41	41	62	62	41	41	41	41	78	41	41
1879	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40
1880	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40
1881	65	65	65	65	65	65	33	33	33	51	51	33	33	33	33	65	33	33
1882	56	56	56	56	56	56	26	26	26	44	44	26	26	26	26	56	24	24
1883	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	30	30
1884	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1885	56	56	56	56	56	56	27	27	27	45	45	27	27	27	27	56	20	20
1886	75	66	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1887	75	50	75	75	67	56	31	35	27	64	64	35	31	35	27	75	33	25
1888	73	49	73	73	63	49	30	35	25	63	63	35	30	35	25	73	35	25
1889	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1890	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1891	75	50	75	75	65	35	26	35	25	49	44	35	26	35	25	75	35	25
1892*	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	24

* Eight months, to August 31, inclusive.

VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

Commodities (rates in cents per 100 pounds).																							
Mo-lasses.		Rice.		Groceries.	Drugs.	Crock-ery and earthen-ware.		Bagging		Leather		Lead.		Nails.		Hardware.	Agricul-tural im-plements		Machin-ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
83	83	83	83	162	190	162	162	162	162	162	162	83	83	83	83	162	190	190	162	162	129	129	
.....	.....	78	78	144	170	144	144	144	144	144	144	78	78	78	78	144	170	170	144	144	119	114	
.....	.....	72	72	122	132	.....	.....	122	122	122	122	72	72	72	72	122	132	132	122	122	100	100	
.....	.....	.....	.....	113	130	.....	.....	113	113	111	111	70	70	69	69	113	130	130	113	113	90	90	
51	51	51	51	79	90	55	55	79	79	79	79	44	44	51	51	79	90	90	79	79	65	65	
62	62	57	57	104	118	91	91	104	104	104	104	48	48	62	62	104	118	118	104	104	81	81	
45	45	35	35	71	78	35	35	71	71	71	71	35	35	45	45	71	.....	62	71	71	57	57	
54	54	41	41	82	90	41	41	82	82	82	82	41	41	54	54	82	.....	54	82	82	69	69	
47	47	29	29	55	61	33	33	55	55	55	55	29	29	38	38	55	.....	38	55	55	46	46	
26	26	22	22	41	43	22	22	41	41	41	41	22	22	26	26	41	.....	26	41	41	36	36	
42	42	35	35	68	75	35	35	59	59	68	68	35	35	42	42	68	.....	41	68	59	52	52	
41	41	41	41	62	78	41	41	41	41	62	62	41	41	41	41	62	.....	41	62	41	41	41	
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.....	40	60	40	40	40	
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.....	40	60	40	40	40	
33	33	33	33	51	65	33	33	33	33	51	51	33	33	33	33	51	.....	33	51	33	33	33	
24	24	26	26	44	56	26	26	26	26	44	44	26	26	26	26	44	.....	26	44	26	26	26	
30	30	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.....	36	60	35	35	35	
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.....	36	60	35	35	35	
20	20	27	27	45	56	27	27	27	27	45	45	27	27	27	27	45	.....	27	45	27	27	27	
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.....	35	60	35	35	35	
33	29	35	35	64	75	35	31	46	35	52	41	35	27	35	31	64	.....	31	41	31	46	31	
35	30	35	25	63	73	35	30	49	35	49	35	35	25	35	30	63	49	30	35	30	49	30	
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30	
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30	
35	30	35	25	65	75	35	30	50	35	50	35	35	25	31	26	65	50	30	35	34	50	30	
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	35	50	30	

TABLE 19.—PERCENTAGES OF THE YEARLY AVERAGE RATES ON VARIOUS

Year.	Commodities (rates in cents per 100 pounds).								
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.	
				Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.
1867.....	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1868.....	89.47	89.47	89.47	89.47	89.47	89.47	89.47	.....	.....
1869.....	69.47	69.47	69.47	69.47	69.47	69.47	69.47	.....	.....
1870.....	68.42	68.42	68.42	68.42	68.42	68.42	68.42	.....	.....
1871.....	47.37	47.37	47.37	47.37	47.37	47.37	47.37	24.69	24.69
1872.....	62.11	62.11	62.11	62.11	62.11	62.11	62.11	29.63	29.63
1873.....	41.05	41.05	41.05	41.05	41.05	41.05	41.05	21.60	21.60
1874.....	47.37	47.37	47.37	47.37	47.37	47.37	47.37	25.31	25.31
1875.....	32.11	32.11	32.11	32.11	32.11	32.11	32.11	17.28	17.28
1876.....	22.63	22.63	22.63	22.63	22.63	22.63	22.63	13.58	13.58
1877.....	39.47	39.47	39.47	39.47	39.47	39.47	33.16	21.60	21.60
1878.....	41.05	41.05	41.05	41.05	41.05	41.05	21.58	25.31	25.31
1879.....	39.47	39.47	39.47	39.47	39.47	39.47	21.05	24.69	24.69
1880.....	39.47	39.47	39.47	39.47	39.47	39.47	21.05	24.69	24.69
1881.....	34.21	34.21	34.21	34.21	34.21	34.21	17.37	20.37	20.37
1882.....	29.47	29.47	29.47	29.47	29.47	29.47	13.68	16.05	16.05
1883.....	39.47	39.47	39.47	39.47	39.47	39.47	18.42	21.60	21.60
1884.....	39.47	39.47	39.47	39.47	39.47	39.47	18.42	21.60	21.60
1885.....	29.47	29.47	29.47	29.47	29.47	29.57	14.06	16.67	16.67
1886.....	39.47	34.74	39.47	39.47	39.47	39.47	18.42	21.60	21.60
1887.....	39.47	26.32	39.47	39.47	35.26	29.47	16.32	21.60	16.67
1888.....	38.42	25.79	38.42	38.42	33.16	25.79	15.79	21.60	15.43
1889.....	39.47	26.32	39.47	39.47	34.21	26.32	15.79	21.60	15.43
1890.....	39.47	26.32	39.47	39.47	34.21	26.32	15.79	21.60	15.43
1891.....	39.47	26.32	39.47	39.47	34.21	18.42	13.68	21.60	15.43
1892.....	39.47	26.32	39.47	39.47	34.21	15.79	13.16	21.60	15.43

Year.	Commodities (rates in cents per 100 pounds).									
	Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.	
	Less than car-loads.	Car-loads.			Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.
1867.....	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1868.....	93.98	93.98	88.89	89.47	88.89	88.89	88.89	88.89	88.89	88.89
1869.....	86.75	86.75	75.31	69.47	.....	.....	75.31	75.31	75.31	75.31
1870.....	.....	.....	69.75	68.42	.....	.....	69.75	69.75	68.52	68.52
1871.....	61.45	61.45	48.77	47.37	33.95	33.95	48.77	48.77	48.77	48.77
1872.....	68.67	68.67	64.20	62.11	56.17	56.17	64.20	64.20	64.20	64.20
1873.....	42.17	42.17	43.83	41.05	21.60	21.60	43.83	43.83	43.83	43.83
1874.....	49.40	49.40	50.62	47.37	25.31	25.31	50.62	50.62	50.62	50.62
1875.....	34.94	34.94	33.95	32.11	20.37	20.37	33.95	33.95	33.95	33.95
1876.....	26.51	26.51	25.31	22.63	13.58	13.58	25.31	25.31	25.31	25.31
1877.....	42.17	42.17	41.98	39.47	21.60	21.60	36.42	36.42	41.98	41.98
1878.....	49.40	49.40	38.27	41.05	35.31	35.31	35.31	35.31	38.27	38.27
1879.....	48.19	48.19	37.04	39.47	24.69	24.69	24.69	24.69	37.04	37.04
1880.....	48.19	48.19	37.04	39.47	24.69	24.69	24.69	24.69	37.04	37.04
1881.....	39.76	39.76	31.48	34.21	20.37	20.37	20.37	20.37	31.48	31.48
1882.....	31.33	31.33	27.16	29.47	16.05	16.05	16.05	16.05	27.16	27.16
1883.....	42.17	42.17	37.04	39.47	21.60	21.60	21.60	21.60	37.04	37.04
1884.....	42.17	42.17	37.04	39.47	21.60	21.60	21.60	21.60	37.04	37.04
1885.....	32.53	32.53	27.78	29.47	16.67	16.67	16.67	16.67	27.78	27.78
1886.....	42.17	42.17	37.04	39.47	21.60	21.60	21.60	21.60	37.04	37.04
1887.....	42.17	42.17	39.51	39.47	21.60	19.14	28.40	21.60	32.10	25.31
1888.....	42.17	30.12	38.89	38.42	21.60	18.52	30.25	21.60	30.25	21.60
1889.....	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60
1890.....	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60
1891.....	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60
1892.....	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60

COMMODITIES, VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

Commodities (rates in cents per 100 pounds).										
Soap.				Starch.		Tea.	Sugar.		Molasses.	
Castile and fancy.		Common.								
Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.		Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.
100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
88.89	88.89	60.47	60.47	75.31	75.31	89.47	-----	-----	-----	-----
75.31	75.31	55.81	55.81	61.73	61.73	69.47	-----	-----	-----	-----
69.75	69.75	53.49	53.49	55.56	55.56	68.42	-----	-----	-----	-----
48.77	48.77	39.53	39.53	40.12	40.12	47.37	48.19	48.19	61.45	61.45
64.20	64.20	48.06	48.06	50.00	50.00	62.11	57.83	57.83	74.70	74.70
43.83	43.83	34.88	34.88	35.19	39.19	41.05	42.17	42.17	54.22	54.22
50.62	50.62	41.86	41.86	42.59	42.59	47.37	49.40	49.40	65.06	65.06
33.95	33.95	29.46	49.46	28.40	28.40	32.11	33.73	33.73	56.63	56.63
25.31	29.31	20.16	20.16	22.22	22.22	22.63	26.51	26.51	31.33	31.33
41.98	41.98	32.56	32.56	32.10	32.10	39.47	42.17	42.17	50.60	50.60
38.27	38.27	31.78	31.78	25.31	25.31	41.05	49.40	49.40	49.40	49.40
37.04	37.04	31.01	31.01	24.69	24.69	39.47	48.19	48.19	48.19	48.19
37.04	37.04	31.01	31.01	24.69	24.69	39.47	48.19	48.19	48.19	48.19
31.48	31.48	25.58	25.58	20.37	20.37	34.21	39.76	39.76	39.76	39.76
27.16	27.16	20.16	20.16	16.05	16.05	29.47	28.92	28.92	28.92	28.92
37.04	37.04	27.13	27.13	21.60	21.60	39.47	36.14	36.14	36.14	36.14
37.04	37.04	27.13	27.13	21.60	21.60	39.47	30.12	30.12	30.12	30.12
27.78	27.78	20.93	20.93	16.67	16.67	29.47	24.10	24.10	24.10	24.10
37.04	37.04	27.13	27.13	21.60	21.60	39.47	30.12	30.12	30.12	30.12
39.51	39.51	27.13	24.03	21.60	16.67	39.47	39.76	30.12	39.76	34.94
38.89	38.89	27.13	23.26	21.60	15.43	38.42	42.17	30.12	42.17	36.14
40.12	40.12	27.13	23.26	21.60	15.43	39.47	42.17	30.12	42.17	36.14
40.12	40.12	27.13	23.26	21.60	15.43	39.47	42.17	30.12	42.17	36.14
30.25	27.16	27.13	23.26	21.60	15.43	39.47	42.17	30.12	42.17	36.14
27.13	15.43	27.13	23.26	21.60	15.43	39.47	42.17	28.92	42.17	36.14

Commodities (rates in cents per 100 pounds).

Lead.		Nails.		Hard-ware.	Agricultural im-plements.		Machinery.		Beer.	
Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.		Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.
100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
93.98	98.98	93.98	93.98	88.89	89.47	89.47	88.89	88.89	92.25	92.25
86.75	86.75	86.75	86.75	75.31	69.47	69.47	75.31	75.31	77.52	77.52
84.34	84.34	83.13	83.13	69.75	68.42	68.42	69.75	69.75	69.77	69.77
53.01	53.01	61.45	61.45	48.77	47.37	47.37	48.77	48.77	50.39	50.39
57.83	57.83	74.70	74.70	64.20	62.11	62.11	64.20	64.20	62.79	62.79
42.17	42.17	54.22	54.22	43.83	-----	32.63	43.83	43.83	44.19	44.19
49.40	49.40	65.06	65.06	50.62	-----	28.42	50.62	50.62	53.49	53.49
34.94	34.94	45.78	45.78	33.95	-----	20.00	33.95	33.95	35.66	35.66
26.51	26.51	31.33	31.33	25.31	-----	13.68	25.31	25.31	27.91	27.91
42.17	42.17	50.60	50.60	41.98	-----	21.58	41.98	36.42	40.31	40.31
49.40	49.40	49.40	49.40	38.27	-----	21.58	38.27	25.31	31.78	31.78
48.19	48.19	48.19	48.19	37.04	-----	21.05	37.04	24.69	31.01	31.01
48.19	48.19	48.19	48.19	37.04	-----	21.05	37.04	24.69	31.01	31.01
39.76	39.76	39.76	39.76	31.48	-----	17.37	31.48	20.37	25.58	25.58
31.33	31.33	31.33	31.33	27.16	-----	13.68	27.16	16.05	20.16	20.16
42.17	42.17	42.17	42.17	37.04	-----	18.95	37.04	21.60	27.13	27.13
42.17	42.17	42.17	42.17	37.04	-----	18.95	37.04	21.60	27.13	27.13
32.53	32.53	32.53	32.53	27.78	-----	14.06	27.78	16.67	20.93	20.93
42.17	42.17	42.17	42.17	37.04	-----	18.42	37.04	21.60	27.13	27.13
42.17	32.53	42.17	37.35	39.51	-----	16.32	25.31	19.14	35.66	24.03
42.17	30.12	42.17	36.14	38.89	25.79	15.79	21.60	18.52	37.98	23.26
42.17	30.12	42.17	36.14	40.12	26.32	15.79	21.60	18.52	38.76	23.26
42.17	30.12	42.17	36.14	40.12	26.32	15.79	21.60	18.52	38.76	23.26
42.17	30.12	37.35	31.33	40.12	26.32	15.79	21.60	20.99	38.76	23.26
42.17	30.12	36.14	30.12	40.12	26.32	15.79	21.60	21.60	38.76	23.26

Next following will be presented numerous tables showing changes in rates on important commodities from New York to a number of western competitive points. These points have been selected principally on account of their importance as commercial and distributing trade centers, and to which the greater portion of the westward traffic from the seaboard cities is carried.

The commodities given have been carefully selected and are intended to embrace (1) those representative of different commercial classes, (2) those of universal use, and (3) those which have been carried in practically the same form throughout the entire period covered. The shipping terms as now employed for many classified articles are quite unlike those of 1867, and the frequent changes in the nomenclature of the freight classifications have made it very difficult to trace the rating for many of the articles; but so far as has been possible the rates shown throughout the tables cover the same form of package, or represent the standard commercial package from time to time prevailing for these articles.

The dates appearing at the left hand in the tables indicate the dates on which a change was made in the rate itself of one or more articles, or a change in the classification of an article resulting in a change in the rate. The headlines are self-explanatory, columns being provided for less than carloads and carload rates for such articles as are carried in both forms. Where the figures are omitted and "special rate" inserted the records of the railroads failed to show the actual rate charged. In such cases the rate may be assumed to have been lower than the preceding rate shown. In the *parlance* of the railroads in former years the term "special rate" generally implied a *secret* rate, which was often omitted from the schedules and known only to the company and favored patrons.

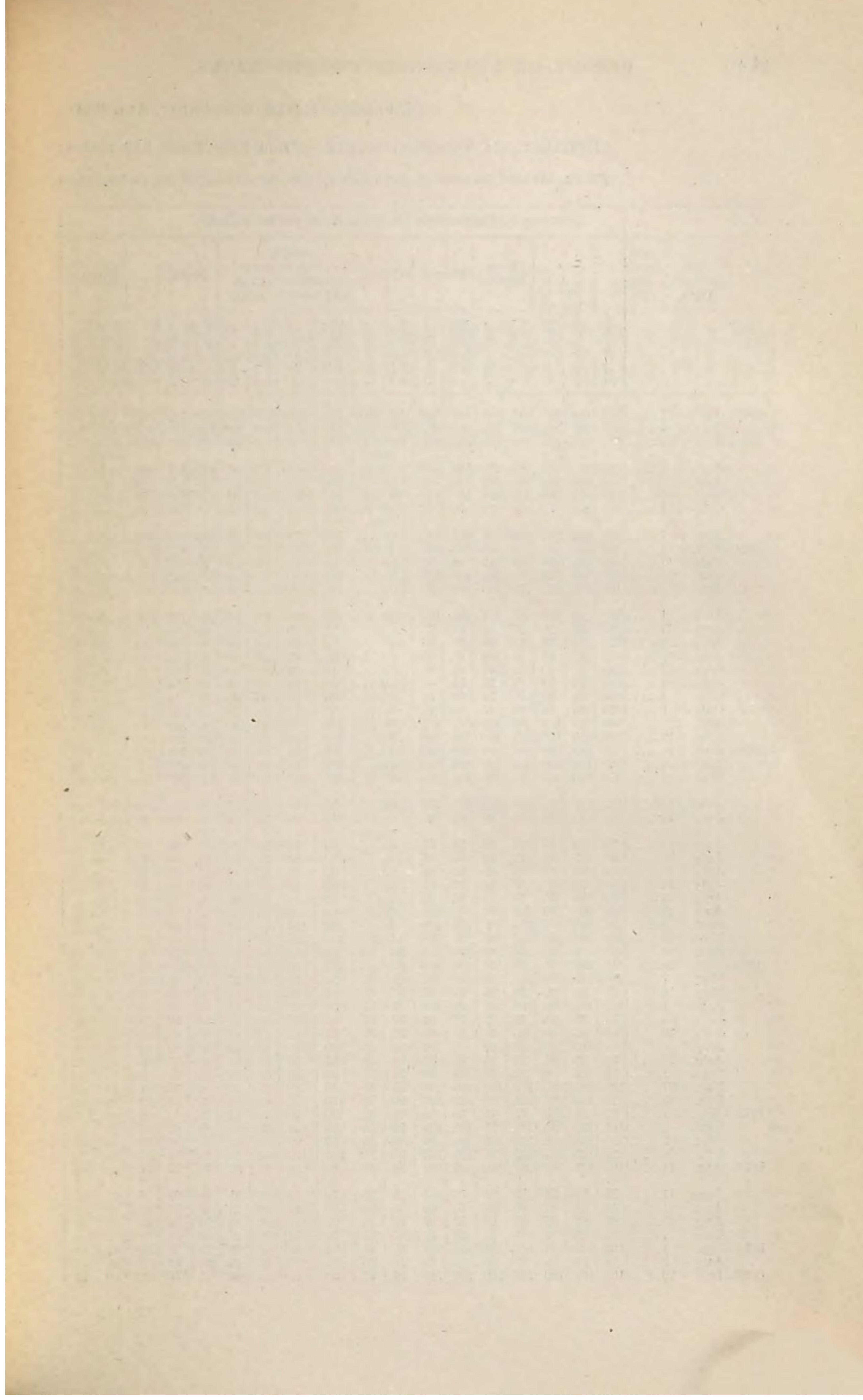


TABLE 20.—RATES OF FREIGHT, ALL RAIL,

DISTANCE VIA SHORTEST ROUTE.—From New York, 212 miles;

[NOTE.—Where the rates are not specifically described as applying on less than

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Fur- niture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.								
1867—Jan.	1.....	188	188	188	188	188	188	188	188	160	160	160	160	127	127	160	160	188	82	82
Nov.	5.....	202	202	202	202	202	202	202	202	170	170	170	170	138	138	170	170	202	86	86
1868—Feb.	4.....	202	202	202	202	202	202	202	202	Special rate.		170	170	86	86	138	138	202	Special rate.	
June	4.....	188	188	188	188	188	188	188	188	do....		160	160	82	82	127	127	188	do....	
Aug.	10.....	149	149	149	149	149	149	149	149	do....		128	128	82	82	120	120	149	do....	
Sept.	7.....	188	188	188	188	188	188	188	188	160	160	160	160	82	82	127	127	188	do....	
Oct.	1.....	70	70	70	70	70	70	70	70	Special rate.		60	60	50	50	55	55	70	do....	
Dec.	7.....	202	202	202	202	202	202	202	202	do....		170	170	86	86	138	138	202	do....	
1869—Feb.	1.....	188	188	188	188	188	188	188	188	do....		160	160	82	82	127	127	188	do....	
Feb.	17.....	45	45	45	45	45	45	45	45	do....		45	45	45	45	45	45	45	do....	
Mar.	15.....	160	160	160	160	160	160	160	160	do....		160	160	82	82	127	127	160	do....	
Apr.	12.....	160	160	160	160	160	160	160	160	do....		160	160	82	82	127	127	160	do....	
July	1.....	188	188	188	188	188	188	188	188	do....		160	160	82	82	127	127	188	do....	
Aug.	11.....	25	25	25	25	25	25	25	25	do....		25	25	25	25	25	25	25	do....	
Aug.	23.....	38	38	38	38	38	38	38	38	do....		38	38	38	38	38	38	38	do....	
Aug.	30.....	43	43	43	43	43	43	43	43	do....		43	43	43	43	43	43	43	do....	
Sept.	22.....	40	40	40	40	40	40	40	40	do....		40	40	40	40	40	40	40	do....	
Sept.	24.....	35	35	35	35	35	35	35	35	do....		35	35	35	35	35	35	35	do....	
Oct.	4.....	50	50	50	50	50	50	50	50	do....		50	50	50	50	50	50	50	do....	
Oct.	9.....	75	75	75	75	75	75	75	75	do....		75	75	75	75	75	75	75	do....	
Nov.	1.....	140	140	140	140	140	140	140	140	do....		125	125	80	80	100	100	140	do....	
Nov.	29.....	150	150	150	150	150	150	150	150	do....		130	130	80	80	100	100	150	do....	
1870—Apr.	14.....	140	140	140	140	140	140	140	140	do....		125	125	80	80	100	100	140	do....	
May	4.....	150	150	150	150	150	150	150	150	do....		130	130	80	80	100	100	150	38	38
May	7.....	150	150	150	150	150	150	150	150	do....		130	130	80	80	100	100	150	38	38
June	18.....	112	112	112	112	112	112	112	112	do....		90	90	55	55	90	90	112	38	38
July	13.....	80	80	80	80	80	80	80	80	do....		70	70	50	50	60	60	80	Special rate.	
July	18.....	75	75	75	75	75	75	75	75	do....		70	70	50	50	60	60	75	do....	
July	21.....	65	65	65	65	65	65	65	65	do....		60	60	50	50	60	60	65	do....	
July	25.....	65	65	65	65	65	65	65	65	do....		60	60	45	45	55	55	65	do....	
July	28.....	50	50	50	50	50	50	50	50	do....		50	50	45	45	50	50	50	do....	
Aug.	12.....	50	50	50	50	50	50	50	50	do....		50	50	50	50	50	50	50	do....	
Aug.	22.....	100	100	100	100	100	100	100	100	do....		90	90	55	55	70	70	100	do....	
Sept.	8.....	125	125	125	125	125	125	125	125	do....		110	110	65	65	85	85	125	do....	
Nov.	28.....	160	160	160	160	160	160	160	160	do....		130	130	65	65	100	100	160	do....	
Dec.	26.....	180	180	180	180	180	180	180	180	60	60	150	150	80	80	120	120	180	60	60
1871—Feb.	20.....	150	150	150	150	150	150	150	150	55	55	130	130	70	70	100	100	150	55	55
Mar.	7.....	100	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
May	18.....	75	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
June	1.....	100	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
July	8.....	75	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
July	28.....	45	45	45	45	45	45	45	45	32	32	45	45	45	45	45	45	45	32	32
Aug.	16.....	40	40	40	40	40	40	40	40	28	28	40	40	40	40	40	40	40	28	28
Aug.	21.....	35	35	35	35	35	35	35	35	26	26	35	35	35	35	35	35	35	26	26
Sept.	1.....	30	30	30	30	30	30	30	30	24	24	30	30	30	30	30	30	30	24	24
Nov.	27.....	100	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
Dec.	15.....	125	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1872—Aug.	1.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Sept.	1.....	125	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
Sept.	2.....	100	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
Oct.	14.....	125	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1873—Apr.	14.....	100	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
June	11.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Aug.	11.....	40	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30
Aug.	13.....	27	27	27	27	27	27	27	27	17	17	27	27	18	18	18	18	27	17	17
Dec.	1.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1874—Jan.	1.....	100	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
Aug.	3.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1875—Jan.	20.....	100	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45

FROM NEW YORK, N. Y., TO CHICAGO, ILL.

Boston, 1,001 miles; Philadelphia, 822 miles; Baltimore, 801 miles.

carload or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Mo- lasses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Ma- chinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
82	82	82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
86	86	86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
Special rate.		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
do.		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
do.		82	82	128	149	128	128	128	128	128	128	82	82	82	82	128	149	149	128	128	120	120
do.		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
do.		50	50	60	70	60	60	60	60	60	60	52	52	50	50	60	70	70	60	60	55	55
do.		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
do.		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
do.		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
do.		82	82	160	160	160	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
do.		82	82	160	160	Special rate.	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
do.		82	82	160	188	do.	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
do.		25	25	25	25	do.	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
do.		38	38	38	38	do.	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
do.		43	43	43	43	do.	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
do.		40	40	40	40	do.	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
do.		35	35	35	35	do.	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
do.		50	50	50	50	do.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
do.		75	75	75	75	do.	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
do.		80	80	125	140	do.	125	125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
do.		80	80	130	150	do.	130	130	125	125	125	80	80	80	80	130	150	150	130	130	100	100
do.		80	80	125	140	do.	125	125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
do.		80	80	130	150	do.	130	130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
do.		Special rate.		130	150	do.	130	130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
do.		do.		90	112	do.	90	90	90	90	90	70	70	55	55	90	112	112	90	90	90	90
do.		do.		70	80	do.	70	70	70	70	70	50	50	50	50	70	80	80	70	70	60	60
do.		do.		70	75	do.	70	70	70	70	70	50	50	50	50	70	75	75	70	70	60	60
do.		do.		60	65	do.	60	60	60	60	60	50	50	50	50	60	65	65	60	60	60	60
do.		do.		60	65	do.	60	60	60	60	60	45	45	45	45	60	65	65	60	60	55	55
do.		do.		50	50	do.	50	50	50	50	50	45	45	45	45	50	50	50	50	50	50	50
do.		do.		50	50	do.	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
do.		do.		90	100	do.	90	90	90	90	90	55	55	55	55	90	100	100	90	90	70	70
do.		do.		110	125	do.	110	110	110	110	110	65	65	65	65	110	125	125	110	110	85	85
do.		do.		130	160	do.	130	130	130	130	130	65	65	65	65	130	160	160	130	130	100	100
80	80	80	80	150	180	150	150	150	150	150	150	80	80	80	80	150	180	180	150	150	120	120
70	70	70	70	130	150	55	55	130	130	130	130	70	70	70	70	130	150	150	130	130	100	100
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
45	45	45	45	45	45	32	32	45	45	45	45	32	32	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	28	28	40	40	40	40	28	28	40	40	40	40	40	40	40	40	40
35	35	35	35	35	35	26	26	35	35	35	35	26	26	35	35	35	35	35	35	35	35	35
30	30	30	30	30	30	24	24	30	30	30	30	24	24	30	30	30	30	30	30	30	30	30
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
45	45	35	35	70	75	70	70	70	70	70	70	35	35	45	45	70	75	75	70	70	60	60
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
55	55	45	45	90	100	90	90	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	50	50	110	125	50	50	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Spe'l rate.	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	do.	45	70	70	60	60
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	do.	30	40	40	30	30
18	18	17	17	27	27	17	17	27	27	27	27	17	17	18	18	27	do.	18	27	27	18	18
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	do.	45	70	70	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	do.	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	do.	45	70	90	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	do.	60	90	90	75	75

TABLE 20.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 912 miles;

[NOTE.—Where the rates are not specifically described as applying on less than

Data.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Fur-niture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com-mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.	Less than carloads.	Carloads.						
1875—Feb.	23.....	100	100	100	100	100	100	100	100	30	30	90	90	60	60	75	75	100	30	30
Mar.	17.....	75	75	75	75	75	75	75	75	30	30	70	70	45	45	60	60	75	30	30
Apr.	6.....	60	60	60	60	60	60	60	60	30	30	55	55	40	40	50	50	60	30	30
May	18.....	40	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	25
Aug.	12.....	50	50	50	50	50	50	50	50	20	20	40	40	25	25	30	30	50	20	20
Nov.	15.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Dec.	22.....	30	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan.	10.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
June	12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16	
July	28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10	
Dec.	18.....	50	50	50	50	50	50	50	25	25	45	45	30	30	40	40	50	25	25	
1877—Mar.	12.....	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35	
Oct.	8.....	75	75	75	75	75	75	40	40	40	70	70	40	40	40	40	75	40	40	
Oct.	22.....	100	100	100	100	100	100	45	45	45	90	90	45	45	45	45	100	45	45	
Dec.	10.....	100	100	100	100	100	100	45	45	45	80	80	45	45	45	45	100	45	45	
1878—Feb.	15.....	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40	
1881—Aug.	6.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	19	
Nov.	14.....	60	60	60	60	60	60	28	28	28	50	50	28	28	28	28	60	28	28	
1882—Jan.	24.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	19	
July	1.....	60	60	60	60	60	60	30	30	30	50	50	30	30	30	30	60	25	25	
Nov.	1.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	35	35	
1883—June	22.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25	
1885—Jan.	26.....	50	50	50	50	50	50	25	25	25	40	40	25	25	25	25	50	18	18	
Oct.	5.....	60	60	60	60	60	60	25	25	25	50	50	25	25	25	25	60	20	20	
Nov.	18.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25	
1886—Aug.	26.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25	
1887—Apr.	1.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25	
1888—Jan.	9.....	75	50	75	75	65	50	33	38½	27½	65	65	38½	33	38½	27½	75	38½	27½	
Mar.	5.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25	
Nov.	12.....	50	35	50	50	40	35	25	30	20	40	40	30	25	30	20	50	30	20	
Dec.	17.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25	
1891—Apr.	9.....	75	50	75	75	65	30	25	35	25	65	65	35	25	35	25	75	35	25	
June	20.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	25	
1892—June	6.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	23	

NEW YORK, N. Y. TO CHICAGO, ILL.—Continued.

Boston, 1,001 miles; Philadelphia, 822 miles; Baltimore, 801 miles.

carload or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Mo-lasses.		Rice.		Groceries.	Drugs.	Crock-ery and earthen-ware.		Bag-ging.		Leather.		Lead.		Nails.		Hardware.	Agri-cultural imple-ments.		Ma-chinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Sp'l rate.	60	90	90	75	75
60	60	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	do.	45	70	70	60	60
60	60	30	30	55	60	30	30	55	55	55	55	30	30	40	40	55	do.	40	55	55	50	50
60	60	25	25	40	40	40	40	40	40	40	40	25	25	35	35	40	do.	35	40	40	35	35
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	do.	25	40	40	30	30
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	do.	45	70	70	60	60
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	do.	20	25	25	20	20
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	do.	45	70	70	60	60
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	do.	16	25	25	25	23
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	do.	10	15	15	15	15
30	30	25	25	45	50	25	25	45	45	45	45	25	25	30	30	45	do.	25	45	45	40	40
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	do.	45	70	70	60	60
40	40	40	40	70	75	40	40	40	40	70	70	40	40	40	40	70	do.	40	70	40	40	40
45	45	45	45	90	100	45	45	45	45	90	90	45	45	45	45	90	do.	45	90	45	45	45
45	45	45	45	80	100	45	45	45	45	80	80	45	45	45	45	80	do.	45	80	45	45	45
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	do.	40	60	40	40	40
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	do.	19	32	19	19	19
28	28	28	28	50	60	28	28	28	28	50	50	28	28	28	28	50	do.	28	50	28	28	28
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	16	32	do.	19	32	19	19	19
25	25	30	30	50	60	30	30	30	30	50	50	30	30	30	30	50	do.	30	50	30	30	30
35	35	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	36	60	35	35	35
18	18	25	25	40	50	25	25	35	25	40	40	25	25	25	25	40	do.	25	40	25	25	25
20	20	25	25	50	60	25	25	25	25	50	50	25	25	25	25	50	do.	25	50	25	25	25
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	35	60	35	35	35
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	do.	50	30	35	30	30
38½	33	38½	27½	65	75	38½	33	50	38½	50	38½	38½	27½	38½	33	65	do.	50	33	38½	33	33
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	do.	50	30	35	30	30
30	25	30	20	40	50	30	25	35	30	35	30	30	20	30	25	40	do.	35	25	30	25	25
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	do.	50	30	35	30	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	do.	50	30	35	35	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	do.	50	30	35	35	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	do.	50	30	35	35	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	do.	50	30	35	35	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	do.	50	30	35	35	30

TABLE 21.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 997 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.								
1867—Jan.	1.....	188	188	188	188	188	188	188	188	160	160	160	160	127	127	160	160	188	82	82
Nov.	5.....	202	202	202	202	202	202	202	202	170	170	170	170	138	138	160	160	202	86	86
1868—Feb.	4.....	202	202	202	202	202	202	202	202	Special rate.		170	170	86	86	138	138	202	Special rate.	
June	4.....	188	188	188	188	188	188	188	188	..do....	..do....	160	160	82	82	127	127	188	..do....	..do....
Aug.	10.....	149	149	149	149	149	149	149	149	..do....	..do....	128	128	82	82	120	120	149	..do....	..do....
Sept.	7.....	188	188	188	188	188	188	188	188	..do....	..do....	160	160	82	82	127	127	188	..do....	..do....
Oct.	1.....	88	88	88	88	88	88	88	88	..do....	..do....	74	74	60	60	68	68	88	..do....	..do....
Dec.	7.....	202	202	202	202	202	202	202	202	..do....	..do....	170	170	86	86	138	138	202	..do....	..do....
1869—Feb.	1.....	188	188	188	188	188	188	188	188	..do....	..do....	160	160	82	82	127	127	188	..do....	..do....
Mar.	15.....	160	160	160	160	160	160	160	160	..do....	..do....	160	160	82	82	127	127	160	..do....	..do....
Apr.	12.....	160	160	160	160	160	160	160	160	..do....	..do....	160	160	82	82	127	127	160	..do....	..do....
July	1.....	188	188	188	188	188	188	188	188	..do....	..do....	160	160	82	82	127	127	188	..do....	..do....
Aug.	11.....	44	44	44	44	44	44	44	44	..do....	..do....	42	42	36	36	39	39	44	..do....	..do....
Aug.	23.....	56	56	56	56	56	56	56	56	..do....	..do....	32	32	38	38	38	38	56	..do....	..do....
Sept.	24.....	54	54	54	54	54	54	54	54	..do....	..do....	42	42	46	46	49	49	54	..do....	..do....
Oct.	4.....	69	69	69	69	69	69	69	69	..do....	..do....	67	67	61	61	64	64	69	..do....	..do....
Oct.	9.....	93	93	93	93	93	93	93	93	..do....	..do....	91	91	61	61	89	89	93	..do....	..do....
Nov.	1.....	140	140	140	140	140	140	140	140	..do....	..do....	125	125	80	80	100	100	140	..do....	..do....
Nov.	29.....	150	150	150	150	150	150	150	150	..do....	..do....	130	130	80	80	100	100	150	..do....	..do....
1870—Apr.	14.....	140	140	140	140	140	140	140	140	..do....	..do....	125	125	80	80	100	100	140	38	38
May	7.....	150	150	150	150	150	150	150	150	..do....	..do....	130	130	80	80	100	100	150	38	38
June	18.....	112	112	112	112	112	112	112	112	..do....	..do....	90	90	55	55	70	70	112	38	38
July	13.....	80	80	80	80	80	80	80	80	..do....	..do....	70	70	50	50	60	60	80	Special rate.	
July	25.....	65	65	65	65	65	65	65	65	..do....	..do....	60	60	45	45	55	55	65	..do....	..do....
Aug.	12.....	50	50	50	50	50	50	50	50	..do....	..do....	50	50	50	50	50	50	50	..do....	..do....
Aug.	22.....	100	100	100	100	100	100	100	100	..do....	..do....	90	90	55	55	70	70	100	..do....	..do....
Nov.	28.....	160	160	160	160	160	160	160	160	..do....	..do....	130	130	65	65	100	100	160	..do....	..do....
Dec.	26.....	180	180	180	180	180	180	180	180	60	60	150	150	80	80	120	120	180	60	60
1871—Feb.	20.....	150	150	150	150	150	150	150	150	55	55	130	130	70	70	100	100	150	55	55
Mar.	13.....	100	100	100	100	100	100	100	100	45	45	90	90	90	90	70	70	100	45	45
May	18.....	75	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
June	1.....	100	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
July	8.....	75	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
July	28.....	42	42	42	42	42	42	42	42	26	26	42	42	31	31	36	36	42	26	26
Dec.	15.....	125	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1872—Aug.	1.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Sept.	1.....	125	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
Sept.	2.....	100	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
Oct.	14.....	125	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1873—Apr.	14.....	100	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
June	11.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Aug.	13.....	45	45	45	45	45	45	45	45	35	35	45	45	35	35	35	35	45	35	35
Aug.	21.....	40	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30
Sept.	17.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1874—Jan.	1.....	100	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
Aug.	3.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1875—Jan.	20.....	100	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
Mar.	17.....	75	75	75	75	75	75	75	75	30	30	70	70	45	45	60	60	75	30	30
May	26.....	45	45	45	45	45	45	45	45	30	30	40	40	35	35	40	40	45	30	30
Aug.	12.....	50	50	50	50	50	50	50	50	20	20	40	40	25	25	30	30	50	20	20
Nov.	15.....	68	68	68	68	68	68	68	68	32	32	64	64	41	41	55	55	68	32	32
Dec.	22.....	22	22	22	22	22	22	22	22	11	11	19	19	16	16	15	15	22	11	11
1876—Jan.	10.....	75	75	75	75	75	75	75	75	20	20	70	70	25	25	60	60	75	20	20
June	12.....	25	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
1877—Jan.	1.....	50	50	50	50	50	50	50	50	25	25	45	45	30	30	40	40	50	25	25
Mar.	12.....	75	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Oct.	8.....	75	75	75	75	75	75	75	75	40	40	70	70	40	40	40	40	75	40	40
Oct.	22.....	100	100	100	100	100	100	100	100	45	45	90	90	45	45	45	45	100	45	45
Dec.	10.....	100	100	100	100	100	100	100	100	45	45	80	80	45	45	45	45	100	45	45
1878—Feb.	15.....	75	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40

NEW YORK, N. Y., TO MILWAUKEE, WIS.

Boston, 1,086 miles; Philadelphia, 907 miles; Baltimore, 886 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Mo- lasses.		Rice.				Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.			Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	
82	82	82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127	
86	86	86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138	
Special rate.		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138	
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127	
..do....		82	82	128	149	128	128	128	128	128	128	82	82	82	82	128	149	149	128	128	120	120	
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127	
..do....		60	60	74	88	74	74	74	74	74	74	60	60	60	60	74	188	188	74	74	68	68	
..do....		86	86	170	202	170	170	170	174	170	170	86	86	86	86	170	202	202	170	170	138	138	
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127	
..do....		82	82	160	160	160	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127	
..do....		82	82	160	160	Special rate.	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127	
..do....		82	82	160	188	..do....	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127	
..do....		36	36	42	44	..do....	42	42	42	42	42	36	36	36	36	42	44	44	42	42	39	39	
..do....		38	38	32	56	..do....	38	38	38	38	38	38	38	38	38	38	56	56	38	38	38	38	
..do....		46	46	42	54	..do....	42	42	42	42	42	46	46	46	46	42	54	54	42	42	49	49	
..do....		61	61	67	69	..do....	67	67	67	67	67	61	61	61	61	67	69	69	67	67	64	64	
..do....		61	61	91	93	..do....	91	91	91	91	91	61	61	61	61	91	93	93	91	91	89	89	
..do....		80	80	125	140	..do....	125	125	125	125	125	80	61	80	80	125	140	140	125	125	100	100	
..do....		80	80	130	150	..do....	130	130	130	130	130	80	80	80	80	130	150	150	130	130	100	100	
..do....		80	80	125	140	..do....	125	125	125	125	125	80	80	80	80	125	140	140	125	125	100	100	
..do....		Special rate.		130	150	..do....	130	130	130	130	130	80	80	80	80	130	150	150	130	130	100	100	
..do....		..do....		90	112	..do....	90	90	90	90	90	55	55	55	55	90	112	112	90	90	70	70	
..do....		..do....		70	80	..do....	70	70	70	70	70	50	50	50	50	70	80	80	70	70	60	60	
..do....		..do....		60	65	..do....	60	60	60	60	60	45	45	45	45	60	65	65	60	60	55	55	
..do....		..do....		50	50	..do....	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
..do....		..do....		90	100	..do....	90	90	90	90	90	55	55	55	55	90	100	100	90	90	70	70	
..do....		..do....		130	160	..do....	130	130	130	130	130	65	65	65	65	130	160	160	130	130	100	100	
80	80	80	80	150	180	150	150	150	150	150	150	80	80	80	80	150	180	180	150	150	120	120	
70	70	70	70	130	150	55	55	130	130	130	130	55	55	70	70	130	150	150	130	130	100	100	
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70	
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50	
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70	
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50	
31	31	31	31	42	42	26	26	42	42	42	42	26	26	31	31	42	42	42	42	42	36	36	
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85	
45	45	35	35	70	75	70	70	70	70	70	70	35	35	45	45	70	75	75	70	70	60	60	
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85	
55	55	45	45	90	100	90	90	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70	
65	65	50	50	110	125	50	50	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85	
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Sp'l rate	60	90	90	75	75	
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	..do.	45	70	70	60	60	
35	35	35	35	45	45	35	35	45	45	45	45	35	35	35	35	45	..do.	35	45	45	35	35	
30	30	30	30	40	40	30	30	40	40	40	40	50	50	30	30	40	..do.	30	40	40	30	30	
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	..do.	45	70	70	60	60	
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	..do.	60	90	90	75	75	
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	..do.	45	70	70	60	60	
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	..do.	60	90	90	75	75	
30	30	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	..do.	45	70	70	60	60	
30	30	30	30	40	45	30	30	40	40	40	40	30	30	35	35	40	..do.	40	40	40	40	40	
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	..do.	25	40	40	30	30	
41	41	32	32	64	68	32	32	64	64	64	64	32	32	41	41	64	..do.	41	64	64	55	55	
16	16	11	11	19	22	11	11	19	19	19	19	11	11	16	16	19	..do.	16	19	19	15	15	
25	25	20	20	70	75	20	20	70	70	70	70	20	20	25	25	70	..do.	25	70	70	60	60	
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	..do.	16	25	25	25	25	
30	30	25	25	45	50	25	25	45	45	45	45	25	25	30	30	45	..do.	30	45	45	40	40	
45	45	35	35	70	75	35	35	70	7														

TABLE 21.—RATES OF FREIGHT, ALL RAIL, FROM NEW
DISTANCE VIA SHORTEST ROUTE.—From New York, 997 miles; Boston,

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds.)																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1881—Aug.	6.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	19
	Nov. 14.....	60	60	60	60	60	60	28	28	28	50	50	28	28	28	28	60	28	28
1882—Jan.	24.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	19
	July 1.....	60	60	60	60	60	60	30	30	30	50	50	30	30	30	30	60	25	25
	Nov. 1.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	35	35
1883—June	22.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1885—Jan.	26.....	50	50	50	50	50	50	25	25	25	40	40	25	25	25	25	50	18	18
	Oct. 5.....	60	60	60	60	60	60	25	25	25	50	50	25	25	25	25	60	20	20
	Nov. 18.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1886—Aug.	26.....	75	50	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1887—Apr.	1.....	75	50	75	75	65	50	30	25	25	65	65	35	30	35	25	75	35	25
1888—Jan.	9.....	75	50	75	75	65	50	33	38½	27½	65	65	38½	33	38½	27½	75	38½	27½
	Mar. 5.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
	Nov. 12.....	50	35	50	50	40	35	25	30	20	40	40	30	25	30	20	50	30	20
	Dec. 17.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1889—Feb.	18.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1891—Apr.	9.....	75	50	75	75	60	30	25	35	25	65	65	35	30	35	25	75	35	25
1892—June	6.....	75	50	75	75	60	30	25	35	25	35	25	35	25	35	25	75	35	23

YORK, N. Y., TO MILWAUKEE, WIS.—Continued.

1,086 miles; Philadelphia, 907 miles; Baltimore, 886 miles—Continued.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	Sp'l rate.	19	32	19	19	19
28	28	28	28	50	60	28	28	28	28	50	50	28	28	28	28	50	do.	28	50	28	28	28
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	do.	19	32	19	19	19
25	25	30	30	50	60	30	30	30	30	50	50	30	30	30	30	50	do.	30	50	30	30	30
35	35	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	35	60	35	35	35
18	18	25	25	40	50	25	25	25	25	40	40	25	25	25	25	40	do.	25	40	25	25	25
20	20	25	25	50	60	25	25	25	25	50	50	25	25	25	25	50	do.	25	50	25	25	25
25	25	25	25	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	do.	35	60	35	35	35
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
38½	33	38½	27½	65	75	38½	33	50	38½	38½	27½	38½	27½	38½	33	65	50	27½	38½	33	50	33
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
30	25	30	20	40	50	30	25	35	30	35	30	30	20	30	25	40	35	25	30	25	35	25
30	25	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30

TABLE 22.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 998 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds).																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.			
												Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1867—Jan.	1.....	205	205	205	205	205	205	205	205	176	176	176	176	139	139	176	176	205	99	90
May	15.....	217	217	217	217	217	217	217	217	185	185	185	185	148	148	185	185	217	94	94
Nov.	5.....	235	235	235	235	235	235	235	235	198	198	198	198	161	161	198	198	235	99	99
1868—Feb.	4.....	235	235	235	235	235	235	235	235	Special rate.		198	198	99	99	161	161	235	Special rate.	
June	4.....	217	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Aug.	10.....	173	173	173	173	173	173	173	173	..do....		148	148	94	94	138	138	173	..do....	
Sept.	7.....	217	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Oct.	1.....	110	110	110	110	110	110	110	110	..do....		94	94	73	73	84	84	110	..do....	
Oct.	22.....	59	59	59	59	59	59	59	59	..do....		59	59	59	59	59	59	59	..do....	
Dec.	7.....	235	235	235	235	235	235	235	235	..do....		198	198	99	99	161	161	235	..do....	
1869—Feb.	1.....	217	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Feb.	17.....	57	57	57	57	57	57	57	57	..do....		57	57	57	57	57	57	57	..do....	
Mar.	15.....	185	185	185	185	185	185	185	185	..do....		185	185	94	94	148	148	185	..do....	
Apr.	12.....	185	185	185	185	185	185	185	185	..do....		185	185	94	94	148	148	185	..do....	
July	1.....	217	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Aug.	11.....	35	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35	..do....	
Sept.	22.....	45	45	45	45	45	45	45	45	..do....		45	45	45	45	45	45	45	..do....	
Oct.	4.....	60	60	60	60	60	60	60	60	..do....		60	60	60	60	60	60	60	..do....	
Oct.	9.....	87	87	87	87	87	87	87	87	..do....		87	87	60	60	87	87	87	..do....	
Nov.	1.....	163	163	163	163	163	163	163	163	..do....		146	146	94	94	117	117	163	..do....	
Nov.	29.....	176	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	..do....	
1870—Apr.	14.....	176	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	45	45
May	7.....	176	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	45	45
June	18.....	124	124	124	124	124	124	124	124	..do....		99	99	63	63	80	80	124	45	45
July	13.....	92	92	92	92	92	92	92	92	..do....		80	80	55	55	68	68	92	45	45
July	21.....	80	80	80	80	80	80	80	80	..do....		70	70	55	55	63	63	80	45	45
July	25.....	75	75	75	75	75	75	75	75	..do....		65	65	48	48	60	60	75	45	45
July	28.....	55	55	55	55	55	55	55	55	..do....		55	55	48	48	55	55	55	45	45
Aug.	12.....	57	57	57	57	57	57	57	57	..do....		57	57	57	57	57	57	57	45	45
Aug.	22.....	110	110	110	110	110	110	110	110	..do....		99	99	63	63	80	80	110	45	45
Sept.	8.....	145	145	145	145	145	145	145	145	..do....		129	129	76	76	99	99	145	45	45
Nov.	28.....	178	178	178	178	178	178	178	178	..do....		144	144	72	72	113	113	178	45	45
Dec.	26.....	202	202	202	202	202	202	292	67	67	168	168	89	89	134	134	202	67	67	
1871—Feb.	20.....	168	168	168	168	168	168	168	168	62	62	144	144	79	79	113	113	168	62	62
Mar.	7.....	110	110	110	110	110	110	110	110	48	48	99	99	63	63	80	80	110	48	48
Mar.	13.....	113	113	113	113	113	113	113	113	51	51	101	101	62	62	79	79	113	51	51
May	18.....	84	84	84	84	84	84	84	84	41	41	72	72	50	50	57	57	84	41	41
June	1.....	113	113	113	113	113	113	113	113	51	51	101	101	62	62	79	79	113	51	51
July	8.....	84	84	84	84	84	84	84	84	41	41	72	72	50	50	57	57	84	41	41
July	28.....	53	53	53	53	53	53	53	53	37	37	53	53	50	50	53	53	53	37	37
Aug.	16.....	45	45	45	45	45	45	45	45	32	32	45	45	45	45	45	45	45	32	32
Aug.	22.....	40	40	40	40	40	40	40	40	29	29	40	40	40	40	40	40	40	29	29
Sept.	1.....	35	35	35	35	35	35	35	35	27	27	35	35	35	35	35	35	35	27	27
Nov.	27.....	113	113	113	113	113	113	113	113	51	51	101	101	62	62	62	62	113	51	51
Dec.	15.....	140	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
1872—April	27.....	140	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
Aug.	1.....	84	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
Sept.	1.....	140	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
Sept.	2.....	112	112	112	112	112	112	112	112	50	50	101	101	62	62	78	78	112	50	50
Oct.	14.....	140	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
1873—April	14.....	112	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	50
June	11.....	84	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
Aug.	11.....	45	45	45	45	45	45	45	45	34	34	45	45	34	34	34	34	45	34	34
Sept.	17.....	84	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
1874—Jan.	1.....	112	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	50
Aug.	3.....	84	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
1875—Jan.	20.....	112	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	50
Mar.	17.....	112	112	112	112	112	112	112	112	34	34	101	101	67	67	84	84	112	34	34
April	1.....	105	105	105	105	105	105	105	105	48	48	95	95	62	62	81	81	105	48	48
April	6.....	112	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	50
Aug.	12.....	80	80	80	80	80	80	80	80	30	30	60	60	37	37	46	46	80	30	30
Dec.	22.....	55	55	55	55	55	55	55	55	32	32	45	45	32	32	32	32	55	32	32

NEW YORK, N. Y., TO PEORIA, ILL.

Boston, 1,164 miles; Philadelphia, 908 miles; Baltimore, 887 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
90	90	90	90	176	205	176	176	176	176	176	176	90	90	90	90	176	205	205	176	176	139	139	
94	94	94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148	
99	99	99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161	
Special rate.		99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161	
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148	
..do....		94	94	148	173	148	148	148	148	148	148	94	94	94	94	148	173	173	148	148	138	138	
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148	
..do....		73	73	94	110	94	94	94	94	94	94	73	73	73	73	94	110	110	94	94	84	84	
..do....		59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
..do....		99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161	
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148	
..do....		57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
..do....		94	94	185	185	185	185	185	185	185	185	94	94	94	94	185	185	185	185	185	148	148	
..do....		94	94	185	185	Special rate.	185	185	185	185	185	94	94	94	94	185	185	185	185	185	148	148	
..do....		94	94	185	217	..do....	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148	
..do....		35	35	35	35	..do....	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
..do....		45	45	45	45	..do....	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
..do....		60	60	60	60	..do....	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
..do....		60	60	87	87	..do....	87	87	87	87	87	60	60	60	60	87	87	87	87	87	87	87	
..do....		94	94	146	163	..do....	146	146	146	146	146	94	94	94	94	146	163	163	146	146	117	117	
..do....		94	94	151	176	..do....	151	151	151	151	151	94	94	94	94	151	176	176	151	151	117	117	
..do....		94	94	151	176	..do....	151	151	151	151	151	94	94	94	94	151	176	176	151	151	117	117	
..do....		Special rate.	151	176	..do....	151	151	151	151	151	151	94	94	94	94	151	176	176	151	151	117	117	
..do....		..do....	99	124	..do....	99	99	99	99	63	63	63	63	63	63	99	124	124	99	99	80	80	
..do....		..do....	80	92	..do....	80	80	80	80	55	55	55	55	55	55	80	92	92	80	80	68	68	
..do....		..do....	70	80	..do....	70	70	70	70	55	55	55	55	55	55	70	80	80	70	70	63	63	
..do....		..do....	65	75	..do....	65	65	65	65	48	48	48	48	48	48	65	75	75	65	65	60	60	
..do....		..do....	55	55	..do....	55	55	55	55	48	48	48	48	48	48	55	55	55	55	55	55	55	
..do....		..do....	57	57	..do....	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
..do....		..do....	99	110	..do....	99	99	99	99	63	63	63	63	63	63	99	110	110	99	99	80	80	
..do....		..do....	129	145	..do....	129	129	129	129	76	76	76	76	76	76	129	145	145	129	129	99	99	
..do....		..do....	144	178	..do....	144	144	144	144	72	72	72	72	72	72	144	178	178	144	144	113	113	
89	89	89	89	168	202	168	168	168	168	168	168	89	89	89	89	168	202	202	168	168	134	134	
79	79	79	79	144	168	62	62	144	144	144	144	62	62	79	79	144	168	168	144	144	113	113	
63	63	63	63	99	110	48	48	99	99	99	99	48	48	63	63	99	110	110	99	99	80	80	
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79	
50	50	50	50	72	84	41	41	72	72	72	72	41	41	50	50	72	84	84	72	72	57	57	
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79	
50	50	50	50	72	84	41	41	72	72	72	72	41	41	50	50	72	84	84	72	72	57	57	
50	50	50	50	53	53	37	37	53	53	53	53	37	37	50	50	53	53	53	53	53	53	53	
45	45	45	45	45	45	32	32	45	45	45	45	32	32	45	45	45	45	45	45	45	45	45	
40	40	40	40	40	40	29	29	40	40	40	40	29	29	40	40	40	40	40	40	40	40	40	
35	35	35	35	35	35	27	27	35	35	35	35	27	27	35	35	35	35	35	35	35	35	35	
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79	
73	73	73	73	123	140	123	123	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95	
73	73	56	56	123	140	123	123	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95	
50	50	39	39	78	84	78	78	78	78	78	78	39	39	50	50	78	84	84	78	78	67	67	
73	73	73	73	123	140	56	56	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95	
62	62	50	50	101	112	101	101	101	101	101	101	50	50	62	62	101	112	112	101	101	78	78	
73	73	56	56	123	140	56	56	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95	
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	Sp'l rate.	67	101	101	84	84	
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	..do.	50	78	78	67	67	
34	34	34	34	45	45	34	34	45	45	45	45	34	34	3									

TABLE 22.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 998 miles;
[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds).																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.					Less than carloads.	Carloads.
												Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.			
1876—Jan.	10.....	84	84	84	84	84	84	84	84	39	39	78	78	50	50	67	97	84	39	39
June	12.....	28	28	28	28	28	28	28	28	18	18	28	28	28	28	28	28	28	28	28
July	28.....	17	17	17	17	17	17	17	17	12	12	17	17	12	12	17	17	17	12	12
Dec.	18.....	56	56	56	56	56	56	56	56	28	28	50	50	45	45	45	45	56	28	28
1877—Mar.	12.....	84	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
Oct.	8.....	84	84	84	84	84	84	84	45	45	45	78	78	45	45	45	45	84	45	45
Oct.	22.....	112	112	112	112	112	112	112	50	50	50	101	101	50	50	50	50	112	50	50
Dec.	30.....	112	112	112	112	112	112	112	50	50	50	90	90	50	50	50	50	112	50	50
1878—Feb.	15.....	84	84	84	84	84	84	84	45	45	45	67	67	45	45	45	45	84	45	45
1881—Aug.	6.....	50	50	50	50	50	50	50	21	21	21	36	36	21	21	21	21	50	21	21
1882—July	1.....	67	67	67	67	67	67	67	34	34	34	56	56	34	34	34	34	67	28	28
Nov.	1.....	84	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	39	39
1883—June	22.....	84	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	28	28
1885—Jan.	26.....	56	56	56	56	56	56	56	28	28	28	45	45	28	28	28	28	56	20	20
Oct.	5.....	67	67	67	67	67	67	67	28	28	28	56	56	28	28	28	28	67	22	22
Nov.	18.....	84	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	28	28
1886—Mar.	10.....	83	83	83	83	83	83	83	39	39	39	66	66	39	39	39	39	83	28	28
Aug.	26.....	83	50	83	83	83	83	83	39	39	39	66	66	39	39	39	39	83	28	28
1887—Apr.	1.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28	
1888—Jan.	9.....	83	55	83	83	72	55	36	42	30	72	72	42	36	42	30	83	42	30	
Mar.	5.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28	
Nov.	12.....	55	39	55	55	44	39	28	33	22	44	44	33	28	33	22	55	33	22	
Dec.	17.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28	
1891—Apr.	9.....	83	55	83	83	72	33	28	39	28	72	72	39	33	39	28	83	39	28	
1892—June	6.....	83	55	83	83	72	33	28	39	28	39	28	39	28	39	28	83	39	25	

NEW YORK, N. Y., TO PEORIA, ILL.—Continued.

Boston, 1,164 miles; Philadelphia, 908 miles; Baltimore, 887 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.				Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.			Agricul- tural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	Sp'l rate,	50	78	78	67	67
28	28	28	28	28	28	18	18	28	28	28	28	18	18	28	28	28	.do.	18	28	28	28	28
12	12	12	12	17	17	12	12	17	17	17	17	12	12	12	12	17	.do.	12	17	17	17	17
34	34	28	28	50	56	28	28	50	50	50	50	28	28	34	34	50	.do.	34	50	50	45	45
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do.	50	78	78	67	67
45	45	45	45	78	84	45	45	45	45	78	78	45	45	45	45	78	.do.	45	78	45	45	45
50	50	50	50	101	112	50	50	50	50	101	101	50	50	50	50	101	.do.	50	101	50	50	50
50	50	50	50	90	112	50	50	50	50	90	90	50	50	50	50	90	.do.	50	90	50	50	50
45	45	45	45	67	84	45	45	45	45	67	67	45	45	45	45	67	.do.	45	67	45	45	45
21	21	21	21	36	50	21	21	21	21	36	36	21	21	21	21	36	.do.	21	36	21	21	21
28	28	34	34	56	67	34	34	34	34	56	56	34	34	34	34	56	.do.	34	56	34	34	34
39	39	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	.do.	39	67	39	39	39
28	28	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	.do.	39	67	39	39	39
20	20	28	28	45	56	28	28	28	28	45	45	28	28	28	28	45	.do.	28	45	28	28	28
22	22	28	28	56	67	28	28	28	28	56	56	28	28	28	28	56	.do.	28	56	28	28	28
28	28	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	.do.	39	67	39	39	39
28	28	39	39	66	83	39	39	39	39	66	66	39	39	39	39	66	.do.	39	66	39	39	39
28	28	39	39	66	83	39	39	39	39	66	66	39	39	39	39	66	.do.	39	66	39	39	39
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
42	36	42	30	72	83	42	36	55	42	55	42	42	30	42	36	72	55	36	42	36	55	30
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
33	28	33	22	44	55	33	28	39	33	39	33	33	22	33	28	44	39	28	33	28	39	28
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
39	33	39	28	72	83	39	33	55	39	55	39	39	28	33	28	72	55	33	39	33	55	33
39	33	39	28	72	83	39	33	55	39	55	39	39	28	33	28	72	55	33	39	33	55	33

TABLE 23.—RATES OF FREIGHT, ALL RAIL FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 1,065 miles;

[Note.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.		
					Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Castile and fancy.		Common.		Less than carload.	Carloads.		Less than carload.	Carloads.	
											Less than carload.	Carloads.	Less than carload.	Carloads.						
1867—Jan.	1.....	242	242	242	242	242	242	242	242	190	190	190	190	140	140	190	190	242	100	100
Nov.	5.....	262	262	262	262	262	262	262	262	221	221	221	221	181	181	221	221	262	114	114
1868—Feb.	4.....	262	262	262	262	262	262	262	262	Special rate.		221	221	114	114	181	181	262	Special rate.	
June	4.....	242	242	242	242	262	262	262	262	..do....	..do....	207	207	108	108	168	168	242	..do....	..do....
Aug.	10.....	194	194	194	194	194	194	194	194	..do....	..do....	168	168	108	108	157	157	194	..do....	..do....
Sept.	7.....	242	242	242	242	262	262	262	262	..do....	..do....	207	207	108	108	168	168	242	..do....	..do....
Dec.	7.....	262	262	262	262	262	262	262	262	..do....	..do....	221	221	114	114	181	181	262	..do....	..do....
1869—Feb.	1.....	242	242	242	242	242	242	242	242	..do....	..do....	207	207	108	108	168	168	242	..do....	..do....
Feb.	4.....	230	230	230	230	230	230	230	230	..do....	..do....	197	197	103	103	157	157	230	..do....	..do....
Mar.	15.....	197	197	197	197	197	197	197	197	..do....	..do....	197	197	103	103	157	157	197	..do....	..do....
May	12.....	197	197	197	197	197	197	197	197	..do....	..do....	197	197	103	103	157	158	197	..do....	..do....
July	1.....	230	230	230	230	230	230	230	230	..do....	..do....	197	197	103	103	157	157	230	..do....	..do....
Aug.	11.....	35	35	35	35	35	35	35	35	..do....	..do....	35	25	35	35	35	35	35	..do....	..do....
Aug.	23.....	56	56	56	56	56	56	56	56	..do....	..do....	56	56	56	56	56	56	56	..do....	..do....
Aug.	30.....	58	58	58	58	58	58	58	58	..do....	..do....	58	58	58	58	58	58	58	..do....	..do....
Sept.	22.....	53	53	53	53	53	53	53	53	..do....	..do....	53	53	53	53	53	53	53	..do....	..do....
Sept.	24.....	50	50	50	50	50	50	50	50	..do....	..do....	50	50	50	50	50	50	50	..do....	..do....
Oct.	4.....	70	70	70	70	70	70	70	70	..do....	..do....	70	70	70	70	70	70	70	..do....	..do....
Oct.	9.....	100	100	100	100	100	100	100	100	..do....	..do....	100	100	70	70	100	100	100	..do....	..do....
Nov.	1.....	178	178	178	178	178	178	178	178	..do....	..do....	159	159	104	104	129	129	178	..do....	..do....
Nov.	29.....	191	191	191	191	191	191	191	191	..do....	..do....	166	166	104	104	129	129	191	..do....	..do....
1870—Apr.	14.....	191	191	191	191	191	191	191	191	..do....	..do....	166	166	104	104	129	129	191	50	50
May	7.....	191	191	191	191	191	191	191	191	..do....	..do....	166	166	104	104	129	129	191	50	50
July	13.....	100	100	100	100	100	100	100	100	..do....	..do....	90	90	65	65	75	75	100	50	50
July	18.....	90	90	90	90	90	90	90	90	..do....	..do....	85	85	65	65	75	75	90	50	50
July	21.....	80	80	80	80	80	80	80	80	..do....	..do....	75	75	65	65	70	70	80	50	50
Aug.	22.....	125	125	125	125	125	125	125	125	..do....	..do....	113	113	74	74	93	93	125	50	50
Sept.	8.....	165	165	165	165	165	165	165	165	..do....	..do....	145	145	89	89	113	113	165	50	50
Nov.	28.....	200	200	200	200	200	200	200	200	..do....	..do....	163	163	84	84	129	129	200	50	50
Dec.	26.....	226	226	226	226	226	226	226	226	79	79	189	189	103	103	151	151	226	79	79
1871—Feb.	20.....	189	189	189	189	189	189	189	189	73	73	163	163	92	92	129	129	189	73	73
Mar.	7.....	125	125	125	125	125	125	125	125	54	54	113	113	74	74	93	93	125	54	54
1871—Mar.	13.....	129	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	62
May	18.....	97	97	97	97	97	97	97	97	51	51	84	84	60	60	68	68	97	51	51
June	1.....	129	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	62
July	8.....	97	97	97	97	97	97	97	97	51	51	84	84	60	60	68	68	97	51	51
28.....	60	60	60	60	60	60	60	60	60	45	45	60	60	60	60	60	60	60	45	45
Aug.	16.....	50	50	50	50	50	50	50	50	35	35	50	50	50	50	50	50	50	35	35
22.....	45	45	45	45	45	45	45	45	45	35	35	45	45	45	45	45	44	45	35	35
Sept.	1.....	40	40	40	40	40	40	40	40	32	32	40	40	40	40	40	40	40	32	32
Nov.	27.....	129	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	62
Dec.	15.....	158	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
1872—Apr.	27.....	158	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
Aug.	1.....	97	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	49
Sept.	1.....	158	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
2.....	128	128	128	128	128	128	128	128	128	61	61	116	116	73	73	91	91	128	61	61
Oct.	14.....	158	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
1873—Apr.	14.....	128	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	61
June	11.....	97	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	49
Aug.	11.....	55	55	55	55	55	55	55	55	43	43	55	55	43	43	43	43	55	43	43
Sept.	17.....	97	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	49
1874—Jan.	1.....	128	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	61
Aug.	3.....	97	97	97	97	97	97	97	97	35	35	91	91	61	61	79	79	97	35	35
1875—Jan.	20.....	128	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	61
Feb.	23.....	128	128	128	128	128	128	128	128	43	43	116	116	79	79	97	97	128	43	43
Mar.	17.....	97	97	97	97	97	97	97	97	24	24	91	91	61	61	79	79	97	24	24
Apr.	6.....	60	60	60	60	60	60	60	60	30	30	55	55	40	40	50	50	60	30	30
May	26.....	70	70	70	70	70	70	70	70	36	36	70	70	50	50	50	50	70	36	36
29.....	43	43	43	43	43	43	43	43	43	31	31	43	43	36	36	39	39	43	31	31
Aug.	12.....	67	67	67	67	67	67	67	67	31	31	55	55	36	36	43	43	67	31	31
Dec.	22.....	43	43	43	43	43	43	43	43	25	25	36	36	31	31	31	31	43	25	25
1876—July	28.....	25	25	25	25	25	25	25	25	19	19	25	25	19	19	25	25	25	19	19

NEW YORK, N. Y., TO ST. LOUIS MO.

Boston, 1,186 miles; Philadelphia, 975 miles; Baltimore, 934 miles.

than carload or carload quantities they apply on shipments regardless of quantity.

Commodities (rates in cents in 100 pounds).																							
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bagging		Leather.		Lead.		Nails.		Hardware.	Agricul- tural im- plements.		Machin- ery.		Beer.		
Less than carload.	Carloads.	Less than carload.	Carloads.			Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.		Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.
100	100	100	100	190	242	190	190	190	190	190	190	100	100	100	100	190	242	242	190	190	140	140	
114	114	114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181	
Special rate.		114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181	
..do....	108	108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168	
..do....	108	108	108	168	194	168	168	168	168	168	168	108	108	108	108	168	194	194	168	168	157	158	
..do....	108	108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168	
..do....	114	114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181	
..do....	108	108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168	
..do....	103	103	103	197	230	197	197	197	197	197	197	103	103	103	108	197	230	230	197	197	157	157	
..do....	103	103	103	197	197	197	197	197	197	197	197	103	103	103	108	197	197	197	197	197	157	157	
..do....	103	103	103	197	197	Special rate.		197	197	197	197	103	103	103	103	197	197	197	197	197	157	157	
..do....	103	103	103	197	230	..do....		197	197	197	197	103	103	103	103	197	230	230	197	197	157	157	
..do....	35	35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
..do....	56	56	56	56	56	..do....		56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
..do....	58	58	58	58	58	..do....		58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
..do....	53	53	53	53	53	..do....		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
..do....	50	50	50	50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
..do....	70	70	70	70	70	..do....		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
..do....	70	70	70	100	100	..do....		100	100	100	100	70	70	70	70	100	100	100	100	100	100	100	
..do....	104	104	104	159	178	..do....		159	159	159	159	104	104	104	104	159	178	178	159	159	129	129	
..do....	104	104	104	166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129	
..do....	104	104	104	166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129	
..do....	Special rate.			166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129	
..do....	..do....		90	100	..do....		90	90	90	90	75	75	65	65	90	100	100	90	90	75	75		
..do....	..do....		85	90	..do....		85	85	85	85	75	75	65	65	85	90	90	85	85	75	75		
..do....	..do....		75	80	..do....		75	75	75	75	65	65	65	65	75	80	80	75	75	70	70		
..do....	..do....		113	125	..do....		113	113	113	113	74	74	74	74	113	125	125	113	113	93	93		
..do....	..do....		145	165	..do....		145	145	145	145	89	89	89	89	145	165	165	145	145	113	113		
..do....	..do....		163	200	..do....		163	163	163	163	84	84	84	84	163	200	200	163	163	129	129		
103	103	103	103	189	226	189	189	189	189	189	189	103	103	103	103	189	226	226	189	189	151	151	
92	92	92	92	163	189	73	73	163	163	163	163	73	73	92	92	163	189	189	163	163	129	129	
74	74	74	74	113	125	54	54	113	113	113	113	54	54	74	74	113	125	125	113	113	93	93	
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92	
60	60	60	60	84	97	51	51	84	84	84	84	51	51	60	60	84	97	97	84	84	68	68	
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92	
60	60	60	60	84	97	51	51	84	84	84	84	51	51	60	60	84	97	97	84	84	68	68	
60	60	60	60	60	60	45	45	60	60	60	60	45	45	60	60	60	60	60	60	60	60	60	
50	50	50	50	50	50	35	35	50	50	50	50	35	35	50	50	50	50	50	50	50	50	50	
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45	
40	40	40	40	40	40	32	32	40	40	40	40	32	22	40	40	40	40	40	40	40	40	40	
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92	
85	85	85	85	140	158	140	140	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110	
85	85	67	67	140	158	140	140	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110	
61	61	49	49	91	97	91	91	91	91	91	91	49	49	61	61	91	97	97	91	91	79	79	
85	85	85	85	140	158	140	140	140	140	140	140	67	57	85	85	140	158	158	140	140	110	110	
73	73	61	61	116	128	116	116	116	116	116	116	61	61	73	73	116	128	128	116	116	91	91	
85	85	67	67	140	158	67	67	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110	
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	Spec'l rate.	79	116	116	97	97	
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	..do..	61	91	91	79	79	
43	43	43	43	55	55	43	43	55	55	55	55	43	43	43	43	55	..do..	43	55	55	43	43	
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	..do..	61	91				

REPORT ON CHANGES IN FREIGHT RATES.

TABLE 23.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 1,065 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1876—Dec.	18.....	67	67	67	67	67	67	67	36	36	61	61	43	43	55	55	67	36	36
1877—Mar.	12.....	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	49
	Oct. 8.....	97	97	97	97	97	97	55	55	55	91	91	55	55	55	55	97	55	55
	Oct. 22.....	128	128	128	128	128	128	61	61	61	116	116	61	61	61	61	128	61	61
	Dec. 10.....	127	127	127	127	127	127	60	60	60	102	102	60	60	60	60	127	60	60
1878—Feb.	15.....	96	96	96	96	96	96	54	54	54	78	78	54	54	54	54	96	54	54
1879—Sept.	15.....	94	94	94	94	94	94	53	53	53	76	76	53	53	53	53	94	53	53
1881—Aug.	6.....	59	59	59	59	59	59	28	28	28	43	43	28	28	28	28	59	28	28
	Nov. 14.....	76	76	76	76	76	76	38	38	38	65	65	38	38	38	38	76	38	38
1882—July	1.....	76	76	76	76	76	76	41	41	41	65	65	41	41	41	41	76	35	35
	Nov. 1.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	47	47
1883—June	22.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	35	35
1885—Jan.	26.....	65	65	65	65	65	65	35	35	35	53	53	35	35	35	35	65	26	26
	Oct. 5.....	76	76	76	76	76	76	35	35	35	65	65	35	35	35	35	76	29	29
	Nov. 18.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	35	35
1886—Mar.	10.....	92	92	92	92	92	92	46	46	46	75	75	46	46	46	46	92	34	34
	Aug. 26.....	92	63	92	92	92	92	46	46	46	75	75	46	46	46	46	92	34	34
1887—Apr.	1.....	92	63	92	92	92	75	46	46	34	75	75	41	35	41	29	92	34	34
1888—Aug.	15.....	87	58	87	87	75	58	38	41	29	75	75	41	35	41	29	87	41	29
1891—Apr.	9.....	87	58	87	87	75	35	29	41	29	75	75	41	35	41	29	87	41	29
1892—June	6.....	87	58	87	87	75	35	29	41	29	41	29	41	29	41	29	87	41	27

NEW YORK, N. Y., TO ST. LOUIS, MO.—Continued.

Boston, 1,186 miles; Philadelphia, 975 miles; Baltimore, 934 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.			Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
43	43	36	36	61	67	36	36	61	61	61	61	36	36	43	43	61	Sp'l rate.	43	61	61	55	55
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	do.	61	91	91	79	79
55	55	55	55	91	97	55	55	55	55	91	91	55	55	55	55	91	do.	55	91	55	55	55
61	61	61	61	116	128	61	61	61	61	116	116	61	61	61	61	116	do.	61	116	61	61	61
60	60	60	60	102	127	60	60	60	60	102	102	60	60	60	60	102	do.	60	102	60	60	60
54	54	54	54	78	96	54	55	54	54	78	78	54	54	54	54	78	do.	54	78	54	54	54
53	53	53	53	76	94	53	53	53	53	76	76	53	53	53	53	76	do.	53	76	53	53	53
28	28	28	28	43	59	28	28	28	28	43	43	28	28	28	28	43	do.	28	43	28	28	28
38	38	38	38	65	76	38	38	38	38	65	65	38	38	38	38	65	do.	38	65	38	38	38
35	35	41	41	65	76	41	41	41	41	65	65	41	41	41	41	65	do.	41	65	41	41	41
47	47	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	do.	47	76	47	47	47
35	35	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	do.	47	76	47	47	47
26	26	35	35	53	65	35	35	35	35	53	53	35	35	35	35	53	do.	35	53	35	35	35
29	29	35	35	65	76	35	35	35	35	65	65	35	35	35	35	65	do.	35	65	35	35	35
35	35	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	do.	47	76	47	47	47
34	34	46	46	75	92	46	46	46	46	75	75	46	46	46	46	75	92	46	75	46	46	46
34	34	46	46	75	92	46	46	46	46	75	75	46	46	46	46	75	92	46	75	46	46	46
34	34	46	34	75	92	46	46	46	46	75	46	46	46	46	46	75	75	46	46	46	46	46
41	35	41	29	75	87	41	35	58	41	58	41	41	29	41	35	75	58	35	41	35	51	35
41	35	41	29	75	87	41	35	58	41	58	41	41	29	35	29	75	58	35	41	35	51	35
41	35	41	29	75	87	41	35	58	41	58	41	41	29	35	29	75	58	35	41	35	51	35

TABLE 24.—RATES OF FREIGHT, ALL RAIL,

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,100 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities. (Rates in cents per 100 pounds.)																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
												Less than carloads.	Carloads.							
1867—Jan.	1.....	250	250	250	250	250	250	250	195	195	195	195	142	142	195	195	250	100	100	
Nov.	5.....	273	273	273	273	273	273	273	229	229	229	229	185	185	229	229	273	114	114	
1868—Feb.	4.....	273	273	273	273	273	273	273	Special rate.		229	229	114	114	185	185	273	Special rate.		
June	4.....	250	250	250	250	250	250	250	do....		214	214	108	108	171	171	250	do....		
Aug.	10.....	200	200	200	200	200	200	200	do....		171	171	108	108	160	160	200	do....		
Sept.	7.....	250	250	250	250	250	250	250	do....		214	214	108	108	171	171	250	do....		
Oct.	1.....	95	95	95	95	95	95	95	do....		85	85	70	70	75	75	95	do....		
Dec.	7.....	273	273	273	273	273	273	273	do....		229	229	114	114	185	185	273	do....		
1869—Feb.	1.....	250	250	250	250	250	250	250	do....		214	214	108	108	171	171	250	do....		
	17.....	87	87	87	87	87	87	87	do....		87	87	87	87	87	87	87	do....		
Mar.	15.....	214	214	214	214	214	214	214	do....		214	214	108	108	171	171	214	do....		
Apr.	12.....	214	214	214	214	214	214	214	do....		214	214	108	108	171	171	214	do....		
July	1.....	250	250	250	250	250	250	250	do....		214	214	108	108	171	171	250	do....		
Aug.	11.....	42	42	42	42	42	42	42	do....		42	42	42	42	42	42	42	do....		
Oct.	9.....	100	100	100	100	100	100	100	do....		100	100	70	70	100	100	100	do....		
	13.....	168	168	168	168	168	168	168	do....		134	134	88	88	102	102	168	do....		
Nov.	1.....	188	188	188	188	188	188	188	do....		168	168	108	108	134	134	188	do....		
	29.....	202	202	202	202	202	202	202	do....		174	174	108	108	134	134	202	do....		
1870—Apr.	14.....	202	202	202	202	202	202	202	do....		174	174	108	108	134	134	202	50	50	
May	7.....	202	202	202	202	202	202	202	do....		174	174	108	108	134	134	202	50	50	
June	18.....	142	142	142	142	142	142	142	do....		114	114	72	72	92	92	142	50	50	
Aug.	12.....	64	64	64	64	64	64	64	do....		64	64	64	64	64	64	64	Special rate.		
	22.....	126	126	126	126	126	126	126	do....		114	114	72	72	92	92	126	do....		
Sept.	8.....	168	168	168	168	168	168	168	do....		148	148	88	88	114	114	168	do....		
Nov.	28.....	204	204	204	204	204	204	204	do....		164	164	82	82	129	129	204	do....		
Dec.	26.....	231	231	231	231	231	231	231	76	76	192	192	102	102	153	153	231	76	76	
1871—Feb.	20.....	192	192	192	192	192	192	192	70	70	164	164	90	90	129	129	192	70	70	
Mar.	7.....	126	126	126	126	126	126	126	56	56	114	114	72	72	92	92	126	56	56	
	13.....	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	59	56	
May	18.....	96	96	96	96	96	96	96	47	47	82	82	57	57	65	65	96	47	47	
June	1.....	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	59	59	
July	8.....	96	96	96	96	96	96	96	47	47	82	82	57	57	65	65	96	47	47	
July	26.....	76	76	76	76	76	76	76	41	41	70	70	51	51	59	59	76	41	41	
	28.....	65	65	65	65	65	65	65	45	45	65	65	57	57	65	65	65	45	45	
Aug.	16.....	51	51	51	51	51	51	51	36	36	51	51	51	51	51	51	51	36	36	
	22.....	45	45	45	45	45	45	45	35	35	45	45	45	45	45	45	45	35	35	
Sept.	1.....	40	40	40	40	40	40	40	34	34	40	40	40	40	40	40	40	34	34	
Nov.	27.....	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	59	59	
Dec.	15.....	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64	
1872—Apr.	27.....	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64	
Aug.	1.....	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45	
Sept.	1.....	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64	
	2.....	128	128	128	128	128	128	128	58	58	115	115	70	70	90	90	128	58	58	
Oct.	14.....	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64	
1873—Apr.	14.....	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58	
July	22.....	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45	
Aug.	12.....	64	64	64	64	64	64	64	38	38	64	64	38	38	51	51	64	38	38	
Sept.	3.....	51	51	51	51	51	51	51	38	38	51	51	38	38	38	38	51	38	38	
	17.....	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45	
1874—Jan.	1.....	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58	
Aug.	3.....	96	96	96	96	94	96	96	45	45	90	90	58	58	77	77	96	45	45	
1875—Jan.	20.....	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58	
Mar.	17.....	96	96	96	96	96	96	96	38	38	90	90	58	58	77	77	96	38	38	
June	1.....	70	70	70	70	70	70	70	36	36	70	70	50	50	50	50	70	36	36	
Aug.	12.....	64	64	64	64	64	64	64	26	26	51	51	32	32	38	38	64	26	26	
Nov.	15.....	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45	
Dec.	22.....	38	38	38	38	38	38	38	19	19	32	32	26	26	26	26	38	19	19	
1876—Jan.	10.....	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45	
June	2.....	96	96	96	96	96	96	96	26	26	90	90	58	58	77	77	96	26	26	
	12.....	32	32	32	32	32	32	32	21	21	32	32	21	21	32	32	32	21	21	
Dec.	18.....	64	64	64	64	64	64	64	32	32	58	58	38	38	51	51	64	32	32	

FROM NEW YORK, N. Y., TO CAIRO, ILL.

Boston, 1,221 miles; Philadelphia, 1,010 miles; Baltimore, 943 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities. (Rates in cents per 100 pounds.)																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agricul- tural im- plements.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
100	100	100	100	195	250	195	195	195	195	195	195	100	100	100	100	195	250	250	195	195	142	142
114	114	114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
Special rate.		114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		108	108	171	200	171	171	171	171	171	171	108	108	108	108	171	200	200	171	171	160	160
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		70	70	85	95	85	85	85	85	85	85	70	70	70	70	85	95	95	85	85	78	78
..do....		114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
..do....		108	108	214	214	214	214	214	214	214	214	108	108	108	108	214	214	214	214	214	171	171
..do....		108	108	214	214	Special rate.		214	214	214	214	108	108	108	108	214	214	214	214	214	171	171
..do....		108	108	214	250	..do....		214	214	214	214	214	214	108	108	214	250	250	214	214	171	171
..do....		42	42	42	42	..do....		42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
..do....		70	70	100	100	..do....		100	100	100	100	70	70	70	70	100	100	100	100	100	100	100
..do....		88	88	134	168	..do....		134	134	134	134	88	88	88	88	134	168	168	134	134	102	102
..do....		108	108	168	188	..do....		168	168	168	168	108	108	108	108	168	188	188	168	168	134	134
..do....		108	108	174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		108	108	174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		Special rate.		174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		..do....		114	142	..do....		114	114	114	114	72	72	72	72	114	142	142	114	114	92	92
..do....		..do....		64	64	..do....		64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
..do....		..do....		114	126	..do....		114	114	114	114	72	72	72	72	114	126	126	114	114	92	92
..do....		..do....		148	168	..do....		148	148	148	148	88	88	88	88	148	168	168	148	148	114	114
..do....		..do....		164	204	..do....		164	164	164	164	82	82	82	82	164	204	204	164	164	129	129
102	102	102	102	192	231	192	192	192	192	192	192	102	102	102	102	192	231	231	192	192	153	153
90	90	90	90	164	192	70	70	164	164	164	164	70	70	90	90	164	192	192	164	164	129	129
72	72	72	72	114	126	56	56	114	114	114	114	56	56	72	72	114	126	126	114	114	92	92
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
57	57	57	57	82	96	47	47	82	82	82	82	47	47	57	57	82	96	96	82	82	65	65
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
57	57	57	57	82	96	47	47	82	82	82	82	47	47	57	57	82	96	96	82	82	65	65
51	51	51	51	70	76	41	41	70	70	70	70	41	41	51	51	70	76	76	70	70	59	59
57	57	57	57	65	65	45	45	65	65	65	65	45	45	57	57	65	65	65	65	65	65	65
51	51	51	51	51	51	36	36	51	51	51	51	36	36	51	51	51	51	51	51	51	51	51
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	34	34	40	40	40	40	34	34	40	40	40	40	40	40	40	40	40
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
83	83	83	83	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
83	83	64	64	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
58	58	45	45	90	96	90	90	90	90	90	90	45	45	58	58	90	96	96	90	90	77	77
83	83	83	83	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
70	70	58	58	115	128	115	115	115	115	115	115	58	58	70	70	115	128	128	115	115	90	90
83	83	64	64	141	160	64	64	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	Sp'l rate.	77	115	115	96	96
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
38	38	38	38	64	64	38	38	64	64	64	64	38	38	38	38	64	..do.	38	64	64	51	51
38	38	38	38	51	51	38	38	51	51	51	51	38	28	38	38	51	..do.	38	51	51	38	38
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	..do.	77	115	115	96	96
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	..do.	77	115	115	96	

TABLE 24.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,100 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds.)																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.								
1877—Mar.	12.....	96	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
	Oct. 8.....	96	96	96	96	96	96	96	51	51	51	90	90	51	51	51	51	96	51	51
	22.....	128	128	128	128	128	128	128	58	58	58	115	115	58	58	58	58	128	58	58
	Dec. 19.....	128	128	128	128	128	128	128	58	58	58	102	102	58	58	58	58	128	58	58
1878—Feb.	15.....	96	96	96	96	96	96	96	51	51	51	77	77	51	51	51	51	96	51	51
1881—Aug.	6.....	58	58	58	58	58	58	58	25	25	25	41	41	25	25	25	25	58	25	25
	Nov. 14.....	77	77	77	77	77	77	77	36	36	36	64	64	36	36	36	36	77	36	36
1882—Jan.	24.....	58	58	58	58	58	58	58	25	25	25	41	41	25	25	25	25	58	25	25
	July 1.....	77	77	77	77	77	77	77	38	38	38	64	64	38	38	38	38	77	32	32
	Nov. 1.....	96	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	45	45
1883—June	22.....	96	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	32	32
1885—Jan.	26.....	64	64	64	64	64	64	64	32	32	32	51	51	32	32	32	32	64	23	23
	June 1.....	51	51	51	51	51	51	51	23	23	23	38	38	23	23	23	23	51	19	19
	Oct. 5.....	77	77	77	77	77	77	77	32	32	32	64	64	32	32	32	32	77	26	26
	Nov. 18.....	96	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	32	32
1886—Mar.	10.....	90	90	90	90	90	90	90	42	42	42	72	72	42	42	42	42	90	30	30
	Aug. 26.....	90	60	90	90	90	90	90	42	42	42	72	72	42	42	42	42	90	30	30
1887—Apr.	1.....	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	90	42	30	
1888—Jan.	9.....	90	60	90	90	78	60	40	46	33	78	78	46	40	46	33	90	46	33	
	Mar. 5.....	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	90	42	30	
	Nov. 12.....	60	42	60	60	48	42	30	36	24	48	48	36	30	36	24	60	36	24	
	Dec. 17.....	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	90	42	30	
1891—Apr.	9.....	90	60	90	90	78	36	30	42	30	78	78	42	36	42	30	90	42	30	
1892—Mar.	16.....	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	90	42	25	
	May 2.....	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	90	42	30	
	June 6.....	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	90	42	28	

NEW YORK, N. Y., TO CAIRO, ILL.—Continued.

Boston, 1,221 miles; Philadelphia, 1,010 miles; Baltimore, 943 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds.)																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather		Lead.		Nails.		Hardware.	Agricul- tural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	Sp'l rate.	58	90	90	77	77
51	51	51	51	90	96	51	51	51	51	90	90	51	51	51	51	90	do.	51	90	51	51	51
58	58	58	58	115	128	58	58	58	58	115	115	58	58	58	58	115	do.	58	115	58	58	58
58	58	58	58	102	128	58	58	58	58	102	102	58	58	58	58	102	do.	58	102	58	58	58
51	51	51	51	77	96	51	51	51	51	77	77	51	51	51	51	77	do.	51	77	51	51	51
25	25	25	25	41	58	25	25	25	25	41	41	25	25	25	25	41	do.	25	41	25	25	25
36	36	36	36	64	77	36	36	36	36	64	64	36	36	36	36	64	do.	36	64	36	36	36
25	25	25	25	41	58	25	25	25	25	41	41	25	25	25	25	41	do.	25	41	25	25	25
32	32	38	38	64	77	38	38	38	38	64	64	38	38	38	38	64	do.	38	64	38	38	38
45	45	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	do.	45	77	45	45	45
32	32	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	do.	45	77	45	45	45
23	23	32	32	51	64	32	32	32	32	51	51	32	32	32	32	51	do.	32	51	32	32	32
19	19	23	23	38	51	23	23	23	23	38	38	23	23	23	23	38	do.	23	38	23	23	23
26	26	32	32	64	77	32	32	32	32	64	64	32	32	32	32	64	do.	32	64	32	32	32
32	32	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	do.	45	77	45	45	45
30	30	42	42	72	90	42	42	42	42	72	72	42	42	42	42	72	do.	42	72	42	42	42
30	30	42	42	72	90	42	42	42	42	72	72	42	42	42	42	72	do.	42	72	42	42	42
42	36	42	42	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
46	40	46	33	78	90	46	40	60	46	60	46	46	33	46	40	78	60	40	46	40	60	40
42	36	42	30	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
36	30	36	24	48	60	36	30	42	36	42	36	36	24	36	30	48	42	30	36	30	42	30
42	36	42	30	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42																				

TABLE 25.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE—From New York, 1,158 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities, rates in cents per 100 pounds.																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
											Less than carloads.	Carloads.							
1867—Jan.	1.....	270	270	270	270	270	270	270	235	235	235	235	175	175	235	235	270	125	125
May	15.....	256	256	256	256	256	256	256	222	222	222	222	175	175	222	222	256	125	125
1868—Feb.	4.....	256	256	256	256	256	256	256	Special rate.		222	222	125	125	175	175	256	Special rate.	
Aug.	10.....	234	234	234	234	234	234	234	..do....	..do....	200	200	125	125	175	175	234	..do....	..do....
	27.....	215	215	215	215	215	215	215	..do....	..do....	190	190	113	113	160	160	215	..do....	..do....
Oct.	1.....	127	127	127	127	127	127	127	..do....	..do....	113	113	86	86	103	103	127	..do....	..do....
Dec.	7.....	215	215	215	215	215	215	215	..do....	..do....	190	190	113	113	160	160	215	..do....	..do....
1869—Feb.	17.....	87	87	87	87	87	87	87	..do....	..do....	85	85	74	74	80	80	87	..do....	..do....
Mar.	15.....	190	190	190	190	190	190	190	..do....	..do....	190	190	113	113	160	160	190	..do....	..do....
May	12.....	190	190	190	190	190	190	190	..do....	..do....	190	190	81	81	93	93	190	..do....	..do....
Aug.	2.....	107	107	107	107	107	107	107	..do....	..do....	190	190	81	81	93	93	107	..do....	..do....
	3.....	88	88	88	88	88	88	87	..do....	..do....	87	87	76	76	83	83	88	..do....	..do....
	11.....	69	69	69	69	69	69	69	..do....	..do....	68	68	57	57	63	63	69	..do....	..do....
	30.....	102	102	102	102	102	102	102	..do....	..do....	93	93	80	80	85	85	102	..do....	..do....
Sept.	22.....	95	95	95	95	95	95	95	..do....	..do....	86	86	73	73	78	78	95	..do....	..do....
	24.....	92	92	92	92	92	92	92	..do....	..do....	83	83	70	70	75	75	92	..do....	..do....
Nov.	1.....	209	209	209	209	209	209	209	..do....	..do....	183	183	121	121	148	148	209	..do....	..do....
1870—May	7.....	209	209	209	209	209	209	209	..do....	..do....	183	183	121	121	148	148	209	..do....	..do....
July	15.....	148	148	148	148	148	148	148	..do....	..do....	130	130	90	90	108	108	148	..do....	..do....
	21.....	145	145	145	145	145	145	145	..do....	..do....	130	130	94	94	114	114	145	..do....	..do....
	25.....	142	142	142	142	142	142	142	..do....	..do....	124	124	87	87	108	108	142	..do....	..do....
	28.....	125	125	125	125	125	125	125	..do....	..do....	115	115	87	87	104	104	125	..do....	..do....
Aug.	12.....	125	125	125	125	125	125	125	..do....	..do....	115	115	94	94	104	104	125	..do....	..do....
	24.....	166	166	166	166	166	166	166	..do....	..do....	148	148	95	95	120	120	166	..do....	..do....
Sept.	8.....	198	198	198	198	198	198	198	..do....	..do....	176	176	109	109	139	139	198	..do....	..do....
Nov.	28.....	229	229	229	229	229	229	229	..do....	..do....	191	191	105	105	153	153	229	..do....	..do....
Dec.	26.....	229	229	229	229	229	229	229	92	92	191	191	105	105	153	153	229	92	92
1871—Feb.	20.....	207	207	207	207	207	207	207	83	83	182	182	111	111	148	148	207	83	83
Mar.	7.....	166	166	166	166	166	166	166	75	75	148	148	95	95	120	120	166	75	75
	13.....	168	168	168	168	168	168	168	78	78	151	151	95	95	121	121	168	78	78
	29.....	154	154	154	154	154	154	154	74	74	139	139	87	87	110	110	154	74	74
Apr.	29.....	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115	56	56
May	18.....	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115	56	56
July	26.....	95	95	95	95	95	95	95	53	53	90	90	62	62	77	77	95	53	53
	28.....	86	86	86	86	86	86	86	57	57	82	82	69	69	77	77	86	57	57
Aug.	16.....	84	84	84	84	84	84	84	51	51	80	80	69	69	75	75	84	51	51
	17.....	70	70	70	70	70	70	70	51	51	70	70	69	69	70	70	70	51	51
	21.....	100	100	100	100	100	100	100	60	60	90	90	75	75	80	80	100	60	60
Nov.	27.....	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115	56	56
Dec.	15.....	193	193	193	193	193	193	193	82	82	172	172	105	105	135	135	193	82	82
1872—Apr.	27.....	192	192	192	192	192	192	192	82	82	171	171	105	105	134	134	192	82	82
Aug.	1.....	130	130	130	130	130	130	130	63	63	125	125	79	79	79	79	130	63	63
	15.....	135	135	135	135	135	135	135	63	63	125	125	79	79	105	105	135	63	63
	16.....	114	114	114	114	114	114	114	57	57	107	107	72	72	94	94	114	57	57
Sept.	1.....	192	192	192	192	192	192	192	82	82	171	171	105	105	134	134	192	82	82
	9.....	162	162	162	162	162	162	162	74	74	146	146	89	89	115	115	162	74	74
Oct.	14.....	188	188	188	188	188	188	188	79	79	167	167	100	100	131	131	188	79	79
1873—Apr.	14.....	162	162	162	162	162	162	162	74	74	146	146	95	95	120	120	162	74	74
June	11.....	136	136	136	136	136	136	136	63	63	125	125	79	79	105	105	136	63	63
July	22.....	135	135	135	135	135	135	135	63	63	125	125	79	79	105	105	135	63	63
Aug.	12.....	98	98	98	98	98	98	98	58	58	93	93	63	63	73	73	98	58	58
Sept.	17.....	135	135	135	135	135	135	135	63	63	125	125	79	79	105	105	135	63	63
1874—Jan.	1.....	162	162	162	162	162	162	162	74	74	146	146	95	95	120	120	162	74	74
Feb.	17.....	131	131	131	131	131	131	131	67	67	118	118	84	84	102	102	131	67	67
Aug.	3.....	115	115	115	115	115	115	115	57	57	108	108	72	72	94	94	115	57	57
1875—Jan.	20.....	131	131	131	131	131	131	131	67	67	118	118	84	84	102	102	131	67	67
Mar.	17.....	115	115	115	115	115	115	115	50	50	108	108	72	72	94	94	115	50	50
Sept.	9.....	94	94	94	94	94	94	94	41	41	78	78	51	51	63	63	94	41	41
Nov.	15.....	120	120	120	120	120	120	120	57	57	110	110	72	72	95	95	120	57	57
Dec.	22.....	73	73	73	73	73	73	73	36	36	63	63	45	45	52	52	73	36	36
1876—Jan.	10.....	120	120	120	120	120	120	120	57	57	110	110	72	72	95	95	120	57	57

NEW YORK, N. Y., TO MEMPHIS, TENN.

Boston, 1,371 miles; Philadelphia, 1,068 miles; Baltimore, 972 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities, rates in cents per 100 pounds.																							
Mo- lasses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
125	125	125	125	225	270	235	235	235	235	235	235	125	125	125	125	235	270	270	235	235	175	175	
125	125	125	125	222	256	222	222	222	222	222	222	125	125	125	125	222	256	256	222	222	175	175	
Special rate.		125	125	222	256	222	222	222	222	222	222	125	125	125	125	222	256	256	222	222	175	175	
..do....		125	125	200	234	200	200	200	200	200	200	125	125	125	125	200	234	234	200	200	175	175	
..do....		113	113	190	215	190	190	190	190	190	190	113	113	113	113	190	215	215	190	190	160	160	
..do....		86	86	113	127	113	113	113	113	113	113	86	86	86	86	113	127	127	113	113	103	103	
..do....		113	113	190	215	190	190	190	190	190	190	113	113	113	113	190	215	215	190	190	160	160	
..do....		74	74	85	87	85	85	85	85	85	85	74	74	74	74	85	87	87	85	85	80	80	
..do....		113	113	190	190	190	190	190	190	190	190	113	113	113	113	190	190	190	190	190	160	160	
..do....		113	113	190	190	Special rate.		190	190	190	190	113	113	113	113	190	190	190	190	190	160	160	
..do....		81	81	100	107	..do....		100	100	100	100	81	81	81	81	100	107	107	100	100	93	93	
..do....		76	76	87	88	..do....		87	87	87	87	76	76	76	76	87	88	88	87	87	83	83	
..do....		57	57	68	69	..do....		68	68	68	68	57	57	57	57	68	69	69	68	68	63	63	
..do....		80	80	93	102	..do....		93	93	93	93	80	80	80	80	93	102	102	93	93	85	85	
..do....		73	73	86	95	..do....		86	86	86	86	73	73	73	73	86	95	95	86	86	78	78	
..do....		70	70	83	92	..do....		83	83	83	83	70	70	70	70	83	92	92	83	83	75	75	
..do....		121	121	183	209	..do....		183	183	183	183	121	121	121	121	183	209	209	183	183	148	148	
..do....		Special rate.		183	209	..do....		183	183	183	183	121	121	121	121	183	209	209	183	183	148	148	
..do....		..do....		130	148	..do....		130	130	130	130	90	90	90	90	130	148	148	130	130	108	108	
..do....		..do....		130	145	..do....		130	130	130	130	94	94	94	94	130	145	145	130	130	114	114	
..do....		..do....		124	142	..do....		124	124	124	124	87	87	87	87	124	142	142	124	124	108	108	
..do....		..do....		115	125	..do....		115	115	115	115	87	87	87	87	115	125	125	115	115	104	104	
..do....		..do....		115	125	..do....		115	115	115	115	94	94	94	94	115	125	125	115	115	104	104	
..do....		..do....		148	166	..do....		148	148	148	148	95	95	95	95	148	166	166	148	148	120	120	
..do....		..do....		176	198	..do....		176	176	176	176	109	109	109	109	176	198	198	176	176	139	139	
..do....		..do....		191	229	..do....		191	191	191	191	105	105	105	105	191	229	229	191	191	153	153	
105	105	105	105	191	229	191	191	191	191	191	191	105	105	105	105	191	229	229	191	191	153	153	
111	111	111	111	182	207	83	83	182	182	182	182	83	83	111	111	182	207	207	182	182	148	148	
95	95	95	95	148	166	75	75	148	148	148	148	75	75	95	95	148	166	166	148	148	120	120	
95	95	95	95	151	168	78	78	151	151	151	151	78	78	95	95	151	168	168	151	151	121	121	
87	87	87	87	139	154	74	74	139	139	139	139	74	74	87	87	139	154	154	139	139	110	110	
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83	
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83	
62	62	62	62	90	95	53	53	90	90	90	90	53	53	62	62	90	95	95	90	90	77	77	
69	69	69	69	82	86	57	57	82	82	82	82	57	57	69	69	82	86	86	82	82	77	77	
69	69	69	69	80	84	51	51	80	80	80	80	51	51	69	69	80	84	84	80	80	75	75	
69	69	69	69	70	70	51	51	70	70	70	70	51	51	69	69	70	70	70	70	70	70	70	
75	75	75	75	90	100	60	60	90	90	90	90	60	60	75	75	90	100	100	90	90	80	80	
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83	
105	105	105	105	172	193	172	172	172	172	172	172	82	82	105	105	172	193	193	172	172	135	135	
105	105	82	82	171	192	171	171	171	171	171	171	82	82	105	105	171	192	192	171	171	134	134	
79	79	63	63	125	130	125	125	125	125	125	125	63	63	79	79	125	130	130	125	125	79	79	
79	79	63	63	125	135	125	125	125	125	125	125	63	63	79	79	125	135	135	125	125	105	105	
72	72	57	57	107	114	107	107	107	107	107	107	57	57	72	72	107	114	114	107	107	94	94	
105	105	82	82	171	192	171	171	171	171	171	171	82	82	105	105	171	192	192	171	171	134	134	
89	89	74	74	146	162	146	146	146	146	146	146	74	74	89	89	146	162	162	146	146	115	115	
100	100	79	79	167	188	167	167	167	167	167	167	79	79	100	100	167	188	188	167	167	131	131	
95	95	74	74	146	162	74	74	146	146	146	146	74	74	95	95	146	Sp'l rate.	95	146	146	120	170	
79	79	63	63	125	136	63	63	125	125	125	125	63	63	79	79	125	..do.	79	125	125	105	105	
79	79	63	63	125	135	63	63	125	125	125	125	63	63	79	79	125	..do.	79	125	125	105	105	
63	63	58	58	93	98	58	58	93	93	93	93	58	58	63	63	93	..do.	63	93	93	73	73	
79	79	63	63	125	135	63	6																

TABLE 25.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,158 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.								
1876—June	2.....	120	120	120	120	120	120	120	120	41	41	110	110	72	72	95	95	120	41	41
	12.....	68	68	68	68	68	68	68	68	37	37	63	63	41	41	58	58	68	37	37
Dec.	18.....	94	94	94	94	94	94	94	94	47	47	84	84	56	56	73	73	94	47	47
1877—Mar.	12.....	145	145	145	145	145	145	145	145	61	61	130	130	74	74	110	110	145	74	74
Sept.	10.....	114	114	114	114	114	114	114	114	56	56	107	107	71	71	93	93	114	56	56
Oct.	8.....	114	114	114	114	114	114	114	65	65	65	107	107	65	65	65	65	114	65	65
	22.....	116	116	116	116	116	116	116	67	67	67	109	109	67	67	67	67	116	67	67
1878—Feb.	15.....	114	114	114	114	114	114	114	65	65	65	97	97	65	65	65	65	114	65	65
Mar.	4.....	114	114	114	114	114	114	114	63	63	63	93	93	63	63	63	63	114	63	63
1880—Feb.	12.....	107	107	107	107	107	107	107	49	49	49	87	87	49	49	49	49	107	49	49
1881—Aug.	6.....	75	75	75	75	75	75	75	35	35	35	50	50	35	35	35	35	75	35	35
Nov.	14.....	83	83	83	83	83	83	83	41	41	41	63	63	41	41	41	41	83	41	41
1882—Jan.	22.....	100	100	100	100	100	100	100	45	45	45	80	80	45	45	45	45	100	45	45
June	28.....	99	99	99	99	99	99	99	53	53	53	82	82	53	53	53	53	99	44	44
July	1.....	116	116	116	116	116	116	116	57	57	57	99	99	57	57	57	57	116	52	52
Sept.	1.....	99	99	99	99	99	99	99	53	53	53	82	82	53	53	53	53	99	44	44
Nov.	1.....	114	114	114	114	114	114	114	58	58	58	93	93	58	58	58	58	114	58	58
1883—June	22.....	114	114	114	114	114	114	114	58	58	58	93	93	58	58	58	88	114	48	48
1884—Jan.	1.....	114	114	114	114	114	114	114	58	58	58	93	93	58	58	58	58	114	44	44
1885—Jan.	1.....	112	112	112	112	112	112	112	56	56	56	91	91	56	56	56	56	112	42	42
	26.....	40	40	40	40	40	40	40	25	25	25	35	35	25	25	25	25	40	20	20
June	1.....	80	80	80	80	80	80	80	42	42	42	65	65	42	42	42	42	80	39	39
Oct.	5.....	102	70	102	102	102	102	50	50	50	86	86	50	50	50	50	50	102	44	44
1887—Apr.	1.....	102	70	102	102	86	70	44	50	44	86	86	86	50	50	50	50	102	50	44
1890—Apr.	1.....	100	65	100	100	85	65	38	45	35	85	85	45	38	45	35	100	45	35	
Nov.	1.....	100	65	100	100	85	65	38	45	35	85	85	45	38	45	35	100	45	35	
1891—Apr.	9.....	100	65	100	100	85	38	35	45	35	85	85	45	35	45	35	100	45	35	
June	20.....	100	65	100	100	85	38	35	45	35	45	35	45	35	45	35	100	45	35	

NEW YORK, N. Y., TO MEMPHIS, TENN.—Continued.

Boston, 1,371 miles; Philadelphia, 1,068 miles; Baltimore, 972 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.				Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.			Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
51	51	41	41	110	120	41	41	110	110	110	110	41	41	51	51	110	Sp'l rate.	51	110	110	95	95
41	41	37	37	63	68	37	37	63	63	63	63	37	37	41	41	63	do .	41	63	63	58	58
56	56	47	47	84	94	47	47	84	84	84	84	47	47	56	56	84	do .	56	84	84	73	73
61	61	61	61	130	145	61	61	130	130	130	130	61	61	74	74	130	do .	74	130	130	110	110
71	71	56	56	107	114	56	56	107	107	107	107	56	56	71	71	107	do .	71	107	107	93	93
65	65	65	65	107	114	65	65	65	65	107	107	65	65	65	65	107	do .	65	107	65	65	65
67	67	67	67	109	116	67	67	67	67	109	109	67	67	67	67	109	do .	67	109	67	67	67
65	65	65	65	97	114	65	65	65	65	97	97	65	65	65	65	97	do .	65	97	65	65	65
63	63	63	63	93	114	63	63	63	63	93	93	63	63	63	63	93	do .	63	93	63	63	63
49	49	49	49	87	107	49	49	49	49	87	87	49	49	49	49	87	do .	49	87	49	49	49
35	35	35	35	50	75	35	35	35	35	50	50	35	35	35	35	50	do .	35	50	35	35	35
41	41	41	41	63	83	41	41	41	41	63	63	41	41	41	41	63	do .	41	63	41	41	41
45	45	45	45	80	100	45	45	45	45	80	80	45	45	45	45	80	do .	45	80	45	45	45
44	44	53	53	82	99	53	53	53	53	82	82	53	53	53	53	82	do .	53	82	53	53	53
52	52	57	57	99	116	57	57	57	57	99	99	57	57	57	57	99	do .	57	99	57	57	57
44	44	53	53	82	99	53	53	44	44	82	82	53	53	53	53	82	do .	53	82	53	53	53
58	58	58	58	93	114	58	58	58	58	93	93	58	58	58	58	93	do .	58	93	58	58	58
48	48	58	58	93	114	58	58	58	58	93	93	58	58	58	58	93	do .	58	93	58	58	58
44	44	58	58	93	114	58	58	58	58	93	93	58	58	58	58	93	do .	58	93	58	58	58
42	42	56	56	91	112	56	56	56	56	91	91	56	56	56	56	91	do .	56	91	56	56	56
20	20	25	25	35	40	25	25	25	25	35	35	25	25	25	25	35	do .	25	35	25	25	25
39	39	42	42	65	80	42	42	42	42	65	65	42	42	42	42	65	do .	42	65	42	42	42
44	44	50	50	86	102	50	50	50	50	86	86	50	50	50	50	86	do .	50	86	50	50	50
50	44	50	44	86	102	50	44	70	50	70	50	50	44	50	44	86	do .	44	50	44	70	44
45	35	45	35	85	100	45	38	65	45	65	45	45	35	45	38	85	65	38	45	38	65	38
45	38	45	35	85	100	45	38	65	45	65	45	45	35	45	38	85	65	38	45	38	65	38
45	38	45	35	85	100	45	38	65	45	65	45	45	35	38	35	85	65	38	45	38	65	38
45	38	45	35	85	100	45	38	65	45	65	45	45	35	38	35	85	65	38	45	38	65	38

TABLE 26.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 999 miles;
[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds).—																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
												Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1867—Jan.	1.....	255	255	255	255	255	255	255	255	215	215	215	215	170	170	215	215	255	118	118
May	15.....	262	262	262	262	262	262	262	262	223	223	223	223	177	177	223	223	262	122	122
Nov.	5.....	280	280	280	280	280	280	280	280	234	234	234	234	189	189	234	234	280	126	126
1868—Feb.	4.....	280	280	280	280	280	280	280	280	Special rate.		223	223	126	126	189	189	280	Special rate.	
June	4.....	262	262	262	262	262	262	262	262	..do....	..do....	223	223	122	122	177	177	262	..do....	..do....
Aug.	10.....	205	205	205	205	205	205	205	205	..do....	..do....	176	176	100	100	140	140	205	..do....	..do....
Oct.	1.....	108	108	108	108	108	108	108	108	..do....	..do....	96	96	75	75	87	87	108	..do....	..do....
Dec.	7.....	205	205	205	205	205	205	205	205	..do....	..do....	176	176	100	100	140	140	205	..do....	..do....
1869—Feb.	17.....	70	70	70	70	70	70	70	70	..do....	..do....	69	69	65	65	67	67	70	..do....	..do....
Mar.	15.....	176	176	176	176	176	176	176	176	..do....	..do....	176	176	100	100	140	140	176	..do....	..do....
Aug.	2.....	88	88	88	88	88	88	88	88	..do....	..do....	83	83	75	75	77	77	88	..do....	..do....
Aug.	3.....	70	70	70	70	70	70	70	70	..do....	..do....	69	69	65	65	67	67	70	..do....	..do....
Aug.	11.....	53	53	53	53	53	53	53	53	..do....	..do....	51	51	48	48	49	49	53	..do....	..do....
Aug.	23.....	80	80	80	80	80	80	80	80	..do....	..do....	75	75	68	68	71	71	80	..do....	..do....
Sept.	22.....	73	73	73	73	73	73	73	73	..do....	..do....	68	68	61	61	64	64	73	..do....	..do....
Sept.	24.....	70	70	70	70	70	70	70	70	..do....	..do....	65	65	58	58	61	61	70	..do....	..do....
Nov.	1.....	187	187	187	187	187	187	187	187	..do....	..do....	165	165	109	109	134	134	187	..do....	..do....
1870—May	7.....	187	187	187	187	187	187	187	187	..do....	..do....	165	165	109	109	134	134	187	..do....	..do....
July	15.....	123	123	123	123	123	123	123	123	..do....	..do....	107	107	75	75	89	89	123	..do....	..do....
July	21.....	120	120	120	120	120	120	120	120	..do....	..do....	108	108	79	79	94	94	120	..do....	..do....
July	25.....	117	117	117	117	117	117	117	117	..do....	..do....	102	102	72	72	88	88	117	..do....	..do....
July	28.....	100	100	100	100	100	100	100	100	..do....	..do....	93	93	72	72	84	84	100	..do....	..do....
Aug.	12.....	100	100	100	100	100	100	100	100	..do....	..do....	93	93	79	79	84	84	100	..do....	..do....
Aug.	24.....	141	141	141	141	141	141	141	141	..do....	..do....	125	125	80	80	101	101	141	..do....	..do....
Sept.	8.....	173	173	173	173	173	173	173	173	..do....	..do....	153	153	94	94	120	120	173	..do....	..do....
Nov.	28.....	204	204	204	204	204	204	204	204	..do....	..do....	168	168	90	90	134	134	204	..do....	..do....
Dec.	26.....	204	204	204	204	204	204	204	204	81	81	168	168	90	90	134	134	204	81	81
1871—Feb.	20.....	182	182	182	182	182	182	182	182	72	72	159	159	96	96	129	129	182	72	72
Mar.	7.....	141	141	141	141	141	141	141	141	64	64	125	125	80	80	101	101	141	64	64
Mar.	27.....	143	143	143	143	143	143	143	143	67	67	128	128	80	80	102	102	143	67	67
Mar.	29.....	135	135	135	135	135	135	135	135	66	66	122	122	66	66	97	97	135	66	66
Apr.	29.....	115	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115	56	56
July	26.....	95	95	95	95	95	95	95	95	53	53	90	90	62	62	77	77	95	53	53
July	28.....	74	74	74	74	74	74	74	74	51	51	72	72	63	63	69	69	74	51	51
Aug.	16.....	72	72	72	72	72	72	72	72	45	45	70	70	63	63	67	67	72	45	45
Aug.	17.....	70	70	70	70	70	70	70	70	45	45	70	70	63	63	67	67	70	45	45
Aug.	21.....	85	85	85	85	85	85	85	85	53	53	175	175	65	65	70	70	85	53	53
Nov.	27.....	115	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115	56	56
Dec.	15.....	168	168	168	168	168	168	168	168	72	72	149	149	91	91	117	117	168	72	72
1872—Apr.	27.....	167	167	167	167	167	167	167	167	72	72	148	148	91	91	116	116	167	72	72
Aug.	1.....	110	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110	53	53
Aug.	16.....	101	101	101	101	101	101	101	101	50	50	95	95	64	64	83	83	101	50	50
Sept.	1.....	167	167	167	167	167	167	167	167	72	72	148	148	91	91	116	116	167	72	72
Sept.	9.....	137	137	137	137	137	137	137	137	64	64	123	123	78	78	98	98	137	64	64
Oct.	14.....	163	163	163	163	163	163	163	163	69	69	144	144	89	89	114	114	163	69	69
1873—Apr.	14.....	137	137	137	137	137	137	137	137	64	64	123	123	84	84	103	103	137	64	64
June	11.....	110	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110	53	53
Aug.	12.....	73	73	73	73	73	73	73	73	48	48	70	70	52	52	56	56	73	48	48
Sept.	17.....	110	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110	53	53
1874—Jan.	1.....	137	137	137	137	137	137	137	137	64	64	123	123	84	84	103	103	137	64	64
Feb.	17.....	115	115	115	115	115	115	115	115	75	75	105	105	75	75	90	90	115	60	60
Aug.	3.....	101	101	101	101	101	101	101	101	50	50	95	95	64	64	83	83	101	50	50
1875—Jan.	20.....	115	115	115	115	115	115	115	115	75	75	105	105	75	75	90	90	115	60	60
Mar.	17.....	101	101	101	101	101	101	101	101	44	44	95	95	64	64	83	83	101	44	44
June	15.....	59	59	59	59	59	59	59	59	53	53	59	59	53	53	53	53	59	41	41
Sept.	9.....	67	67	67	67	67	67	67	67	34	34	63	63	42	42	50	50	67	34	34
Nov.	15.....	103	103	103	103	103	103	103	103	50	50	95	95	63	63	82	82	103	50	50
Dec.	22.....	56	56	56	56	56	56	56	56	29	29	48	48	36	36	39	39	56	29	29
Dec.	24.....	115	115	115	115	115	115	115	115	60	60	105	105	75	75	90	90	115	60	60
1876—Jan.	10.....	103	103	103	103	103	103	103	103	50	50	95	95	63	63	82	82	103	50	50
June	2.....	103	103	103	103	103	103	103	103	34	34	95	95	42	42	82	82	103	34	34
June	12.....	51	51	51	51	51	51	51	51	30	30	48	48	32	32	45	45	51	30	30
Dec.	18.....	77	77	77	77	77	77	77	77	40	40	69	69	47	47	60	60	77	40	40
1877—Mar.	12.....	125	125	125	125	125	125	125	125	55	55	115	115	69	69	100	100	125	55	55

NEW YORK, N. Y., TO NASHVILLE, TENN.

Boston, 1,202 miles; Philadelphia, 909 miles; Baltimore, 813 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Mo-lasses.		Rice.				Crock-ery and earthen-ware.		Bag-ging.		Leather.		Lead.		Nails.			Agri-cultural imple-ments.		Machin-ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	
118	118	118	118	215	255	215	215	215	215	215	215	118	118	118	118	215	255	255	215	215	170	170	
122	122	122	122	223	262	223	223	223	223	223	223	122	122	122	122	223	262	262	223	223	177	177	
126	126	126	126	234	280	234	234	234	234	234	234	126	126	126	126	234	280	280	234	234	189	189	
Special rate.		126	126	234	280	234	234	234	234	234	234	126	126	126	126	234	280	280	234	234	189	189	
do.		122	122	223	262	223	223	223	223	223	223	122	122	122	122	223	262	262	223	223	177	177	
do.		100	100	176	205	176	176	176	176	176	176	100	100	100	100	176	205	205	176	176	140	140	
do.		75	75	96	108	96	96	96	96	96	96	75	75	75	75	96	108	108	96	96	87	87	
do.		100	100	176	205	176	176	176	176	176	176	100	100	100	100	176	205	205	176	176	140	140	
do.		65	65	69	70	69	69	69	69	69	69	65	65	65	65	69	70	70	69	69	67	67	
do.		100	100	176	176	Special rate.		176	176	176	176	100	100	100	100	176	176	176	176	176	140	140	
do.		75	75	83	88	do.		83	83	83	83	75	75	75	75	83	88	88	83	83	77	77	
do.		65	65	69	70	do.		69	69	69	69	65	65	65	65	69	70	70	69	69	67	67	
do.		48	48	51	53	do.		51	51	51	51	48	48	48	48	51	53	53	51	51	49	49	
do.		68	68	75	80	do.		75	75	75	75	68	68	68	68	75	80	80	75	75	71	71	
do.		61	61	68	73	do.		68	68	68	68	61	61	61	61	68	73	73	68	68	64	64	
do.		58	58	65	70	do.		65	65	65	65	58	58	58	58	65	70	70	65	65	61	61	
do.		109	109	165	187	do.		165	165	165	165	109	109	109	109	165	187	187	165	165	134	134	
do.		Special rate.		165	187	do.		165	165	165	165	109	109	109	109	165	187	187	165	165	134	134	
do.		do.		107	123	do.		107	107	107	107	75	75	75	75	107	123	123	107	107	89	89	
do.		do.		108	120	do.		108	108	108	108	79	79	79	79	108	120	120	108	108	94	94	
do.		do.		102	117	do.		102	102	102	102	72	72	72	72	102	117	117	102	102	88	88	
do.		do.		93	100	do.		93	93	93	93	72	72	72	72	93	100	100	93	93	84	84	
do.		do.		93	100	do.		93	93	93	93	79	79	79	79	93	100	100	93	93	84	84	
do.		do.		125	141	do.		125	125	125	125	80	80	80	80	125	141	141	125	125	101	101	
do.		do.		153	173	do.		153	153	153	153	94	94	94	94	153	173	173	153	153	120	120	
do.		do.		168	204	do.		168	168	168	168	90	90	90	90	168	204	204	168	168	134	134	
90	90	90	90	168	204	168	168	168	168	168	168	90	90	90	90	168	204	204	168	168	134	134	
96	96	96	96	159	182	72	72	159	159	159	159	72	72	96	96	159	182	182	159	159	129	129	
80	80	80	80	125	141	64	64	125	125	125	125	64	64	80	80	125	141	141	125	125	101	101	
80	80	80	80	128	143	67	67	128	128	128	128	67	67	80	80	128	143	143	128	128	102	102	
66	66	66	66	122	135	66	66	122	122	122	122	66	66	66	66	122	135	135	122	122	97	97	
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83	
62	62	62	62	90	95	53	53	90	90	90	90	53	53	62	62	90	95	95	90	90	77	79	
63	63	63	63	72	74	51	51	72	72	72	72	51	51	63	63	72	74	74	72	72	69	69	
63	63	63	63	70	72	45	45	70	70	70	70	45	45	63	63	70	72	72	70	70	67	67	
63	63	63	63	70	70	45	45	70	70	70	70	45	45	63	63	70	70	70	70	70	67	67	
65	65	65	65	175	85	53	53	75	75	75	75	53	53	65	65	75	85	85	75	75	70	70	
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83	
91	91	91	91	149	168	149	149	149	149	149	149	72	72	91	91	149	168	168	149	149	117	117	
91	91	91	91	148	167	148	148	148	148	148	148	72	72	91	91	148	167	167	148	148	116	116	
68	68	53	53	102	110	102	102	102	102	102	102	53	53	68	68	102	110	110	102	102	88	88	
64	64	50	50	95	101	95	95	95	95	95	95	50	50	64	64	95	101	101	95	95	83	83	
91	91	91	91	148	167	148	148	148	148	148	148	72	72	91	91	148	167	167	148	148	116	116	
78	78	64	64	123	137	123	123	123	123	123	123	64	64	78	78	123	137	137	123	123	98	98	
89	89	69	69	144	163	69	69	144	144	144	144	69	69	89	89	144	163	163	144	144	114	114	
84	84	64	64	123	137	64	64	123	123	123	123	64	64	84	84	123	Sp'l rate.	84	123	123	103	103	
68	68	53	53	102	110	53	53	102	103	102	102	53	53	68	68	102	do.	68	102	102	88	88	
52	52	48	48	70	73	48	48	70	70	70	70	48	48	52	52	70	do.	52	70	70	56	56	
68	68	53	53	102	110	53	53	102	102	102	102	53	53	68	68	102	do.	68	102	102	88	88	
84	84	64	64	123	137	64	64	123	123	123	123	64	64	84	84	123	do.	84	123	123	103	103	
75	75	60	60	105	115	60	60	105	105	105	105	60	60	75	75	105	do.	75	105	105	90	90	
64																							

TABLE 26.—RATES OF FREIGHT, ALL RAIL, FROM
 DISTANCE VIA SHORTEST ROUTE.—From New York, 999 miles;
 [NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.		Starch.		Tea.	Sugar.			
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.			Less than carloads.	Carloads.	Less than carloads.	Carloads.
											Less than carloads.	Carloads.							
1877—Sept.	10.....	100	100	100	100	100	100	100	49	49	94	94	63	63	82	82	100	49	49
	Oct. 8.....	125	125	125	125	125	125	57	57	57	115	115	57	57	57	57	125	57	57
	Oct. 22.....	113	113	113	113	113	113	55	55	55	102	102	55	55	55	55	113	55	55
1878—Feb.	15.....	100	100	100	100	100	100	57	57	57	84	84	57	57	57	57	100	57	57
	Mar. 4.....	100	100	100	100	100	100	55	55	55	82	82	55	55	55	55	100	55	55
1880—Feb.	12.....	93	93	93	93	93	93	53	53	53	76	76	53	53	53	53	93	53	53
1881—Aug.	6.....	65	65	65	65	65	65	30	30	30	50	50	30	30	30	30	65	30	30
	Nov. 14.....	69	69	69	69	69	69	33	33	33	52	52	33	33	33	33	69	33	33
1882—Jan.	22.....	83	83	83	83	83	83	37	37	37	64	64	37	37	37	37	83	37	37
	June 28.....	94	94	94	94	94	94	49	49	49	78	78	49	49	49	49	94	49	49
	July 1.....	99	99	99	99	99	99	49	49	49	78	78	49	49	49	49	99	49	49
	Nov. 1.....	109	109	109	109	109	109	54	54	54	89	89	54	54	54	54	109	54	54
1883—June	22.....	109	109	109	109	109	109	54	54	54	89	89	54	54	54	54	109	44	44
1885—Jan.	1.....	107	107	107	107	107	107	52	52	52	87	87	52	52	52	52	107	42	42
	Jan. 26.....	40	40	40	40	40	40	25	25	25	35	35	25	25	25	25	40	20	20
	June 1.....	75	75	75	75	75	75	37	37	37	60	60	37	37	37	37	75	34	34
	Oct. 5.....	97	65	97	97	97	95	47	45	45	81	81	45	45	45	45	97	39	39
1890—Apr.	21.....	91	60	91	91	78	60	36	42	31	78	78	42	36	42	31	91	42	31
1891—Apr.	9.....	91	60	91	91	78	36	31	42	31	78	78	42	31	42	31	91	42	31
	June 20.....	91	60	91	91	78	36	31	42	31	42	31	42	31	42	31	91	42	31

NEW YORK, N. Y., TO NASHVILLE, TENN.—Continued.

Boston, 1,202 miles; Philadelphia, 909 miles; Baltimore, 813 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather		Lead.		Nails.		Hardware.	Agricul- tural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
63	63	49	49	94	100	49	49	94	94	94	94	49	49	63	63	94	Sp'l rate.	63	94	94	82	52
57	57	57	57	115	125	57	57	57	57	115	115	57	57	57	57	115	.do.	57	115	57	57	57
55	55	55	55	102	113	55	55	55	55	102	102	55	55	55	55	102	.do.	55	102	55	55	55
57	57	57	57	84	100	57	57	57	57	84	84	57	57	57	57	84	.do.	57	84	57	57	57
55	55	55	55	82	100	55	55	55	55	82	82	55	55	55	55	82	.do.	55	82	55	55	53
53	53	53	53	76	93	53	53	53	53	76	76	53	53	53	53	76	.do.	53	76	53	53	53
30	30	30	30	50	65	30	30	30	30	50	50	30	30	30	30	50	.do.	30	50	30	30	30
33	33	33	33	52	69	33	33	33	33	52	52	33	33	33	33	52	.do.	33	52	33	33	33
37	37	37	37	64	83	37	37	37	37	64	64	37	37	37	37	64	.do.	37	64	37	37	37
49	49	49	49	78	94	49	49	49	49	78	78	49	49	49	49	78	.do.	49	78	49	49	49
49	49	49	49	78	99	49	49	49	49	78	78	49	49	49	49	78	.do.	49	78	49	49	49
54	54	54	54	89	109	54	54	54	54	89	89	54	54	54	54	89	.do.	54	89	54	54	54
44	44	54	54	89	109	54	54	54	54	89	89	54	54	54	54	89	.do.	54	89	54	54	54
42	42	52	52	87	107	52	52	52	52	87	87	52	52	52	52	87	.do.	52	87	52	52	52
20	20	25	25	35	40	25	25	25	25	35	35	25	25	25	25	35	.do.	25	35	25	25	25
34	34	37	37	60	75	37	37	37	37	60	60	37	37	37	37	60	.do.	37	60	37	37	37
39	39	45	45	81	97	45	45	45	45	81	81	45	45	45	45	81	.do.	45	81	45	45	45
42	36	42	31	78	91	42	36	60	42	60	42	42	31	42	36	78	60	36	42	36	60	36
42	36	42	31	78	91	42	36	60	42	60	42	42	31	36	31	78	60	36	42	36	60	36
42	36	42	31	78	91	42	36	60	42	60	42	42	31	36	31	78	60	36	42	36	60	36

TABLE 27.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 867 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.								
1867—Jan.	1.....	200	200	200	200	200	200	200	200	170	170	170	170	135	135	170	170	200	88	88
May	15.....	212	212	212	212	212	212	212	212	183	183	183	183	147	147	183	183	212	97	97
Nov.	5.....	230	230	230	230	230	230	230	230	194	194	194	194	159	159	194	194	230	101	101
1868—Feb.	4.....	230	230	230	230	230	230	230	230	Special rate.		194	194	101	101	159	159	230	Special rate.	
June	4.....	212	212	212	212	212	212	212	212	do.		183	183	97	97	147	147	212	do.	
Aug.	10.....	172	172	172	172	172	172	172	172	do.		148	148	97	97	139	139	172	do.	
Sept.	7.....	212	212	212	212	212	212	212	212	do.		183	183	97	97	147	147	212	do.	
Oct.	1.....	75	75	75	75	75	75	75	75	do.		68	68	60	60	65	65	75	do.	
Dec.	7.....	230	230	230	230	230	230	230	230	do.		194	194	101	101	159	159	230	do.	
1869—Feb.	1.....	212	212	212	212	212	212	212	212	do.		183	183	97	97	147	147	212	do.	
Feb.	17.....	55	55	55	55	55	55	55	55	do.		55	55	55	55	55	55	55	do.	
Mar.	15.....	183	183	183	183	183	183	183	183	do.		183	183	97	47	147	147	183	do.	
Apr.	12.....	183	183	183	183	183	183	183	183	do.		183	183	97	97	147	147	183	do.	
May	12.....	55	55	55	55	55	55	55	55	do.		55	55	55	55	55	55	55	do.	
July	1.....	212	212	212	212	212	212	212	212	do.		183	183	97	97	147	147	212	do.	
Aug.	2.....	55	55	55	55	55	55	55	55	do.		55	55	55	55	55	55	55	do.	
Aug.	11.....	37	37	37	37	37	37	37	37	do.		37	37	37	37	37	37	37	do.	
Aug.	23.....	50	50	50	50	50	50	50	50	do.		50	50	50	50	50	50	50	do.	
Aug.	30.....	55	55	55	55	55	55	55	55	do.		55	55	55	55	55	55	55	do.	
Sept.	22.....	48	48	48	48	48	48	48	48	do.		48	48	48	48	48	48	48	do.	
Sept.	24.....	45	45	45	45	45	45	45	45	do.		45	45	45	45	45	45	45	do.	
Oct.	4.....	63	63	63	63	63	63	63	63	do.		63	63	63	63	63	63	63	do.	
Oct.	9.....	90	90	90	90	90	90	90	90	do.		90	90	63	63	63	63	90	do.	
Oct.	13.....	145	145	145	145	145	145	145	145	do.		118	118	80	80	90	90	145	do.	
Nov.	1.....	162	162	162	162	162	162	162	162	do.		145	145	96	96	118	118	162	do.	
Nov.	29.....	173	173	173	173	173	173	173	173	do.		150	150	96	96	118	118	173	do.	
1870—Mar.	7.....	173	173	173	173	173	173	173	173	do.		150	150	96	96	118	118	173	do.	
Apr.	14.....	173	173	173	173	173	173	173	173	do.		150	150	96	96	118	118	173	50	50
May	7.....	173	173	173	173	173	173	173	173	do.		150	150	96	96	118	118	173	50	50
June	18.....	123	123	123	123	123	123	123	123	do.		106	106	64	64	82	82	123	50	50
July	13.....	94	94	94	94	94	94	94	94	do.		82	82	59	59	62	62	94	50	50
July	18.....	90	90	90	90	90	90	90	90	do.		82	82	59	59	69	69	90	50	50
July	21.....	80	80	80	80	80	80	80	80	do.		75	75	59	59	69	69	80	50	50
July	25.....	77	77	77	77	77	77	77	77	do.		69	69	52	52	63	63	77	50	50
July	28.....	60	60	60	60	60	60	60	60	do.		60	60	52	52	69	69	60	50	50
Aug.	12.....	60	60	60	60	60	60	60	60	do.		60	60	59	59	69	69	60	Special rate.	
Aug.	22.....	112	112	112	112	112	112	112	112	do.		100	100	64	64	81	81	112	do.	
Sept.	8.....	144	144	144	144	144	144	144	144	do.		128	128	78	78	100	100	144	do.	
Nov.	28.....	175	175	175	175	175	175	175	175	do.		143	143	74	74	114	114	175	do.	
Dec.	26.....	198	198	198	198	198	198	198	198	69	69	166	166	90	90	133	133	198	69	69
1871—Feb.	20.....	166	166	166	166	166	166	166	166	64	64	143	143	81	81	114	114	166	64	64
Mar.	7.....	112	112	112	112	112	112	112	112	52	52	160	160	64	64	82	82	112	52	52
Mar.	13.....	114	114	114	114	114	114	114	114	55	55	103	103	64	64	82	82	114	55	55
May	18.....	86	86	86	86	86	86	86	86	45	45	75	75	53	53	60	60	86	45	45
June	1.....	114	114	114	114	114	114	114	114	55	55	64	64	64	64	82	82	114	55	55
July	8.....	86	86	86	86	86	86	86	86	45	45	75	75	53	53	60	60	86	45	45
July	26.....	70	70	70	70	70	70	70	70	40	40	65	65	48	48	56	56	70	40	40
July	28.....	56	56	56	56	56	56	56	56	43	43	56	56	53	53	56	56	56	43	43
Aug.	16.....	45	45	45	45	45	45	45	45	35	35	45	45	45	45	45	45	45	35	35
Aug.	22.....	38	38	38	38	38	38	38	38	27	27	38	38	38	38	38	38	38	27	27
Nov.	27.....	114	114	114	114	114	114	114	114	55	55	103	103	64	64	82	82	114	55	55
Dec.	15.....	139	139	139	139	139	139	139	139	59	59	123	123	75	75	97	97	139	59	59
1872—Apr.	11.....	139	139	139	139	139	139	139	139	59	59	123	123	75	75	97	97	139	59	59
July	11.....	139	139	139	139	139	139	139	139	60	60	123	123	76	76	97	97	139	60	60
Aug.	1.....	86	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44
Sept.	1.....	139	139	139	139	139	139	139	139	60	60	123	123	76	76	97	97	139	60	60
Sept.	2.....	113	113	113	113	113	113	113	113	55	55	102	102	65	65	81	81	113	55	55
Oct.	14.....	139	139	139	139	139	139	139	139	60	60	123	123	76	76	97	97	139	60	60
1873—Apr.	14.....	113	113	113	113	113	113	113	113	55	55	102	102	71	71	86	86	113	55	55
June	11.....	86	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44

NEW YORK, N. Y., TO LOUISVILLE, KY.

Boston, 1,017 miles; Philadelphia, 777 miles; Baltimore, 703 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
88	88	88	88	170	200	170	170	170	170	170	170	88	88	88	88	170	200	200	170	170	135	135	
97	97	97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147	
101	101	101	101	194	230	194	194	194	194	194	194	101	101	101	101	194	230	230	194	194	159	159	
Special rate.		101	101	194	230	194	194	194	194	194	194	101	101	101	101	194	230	230	194	194	159	159	
..do....	97	97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147	
..do....	97	97	97	148	172	148	148	148	148	148	148	97	97	97	97	148	172	172	148	148	139	139	
..do....	97	97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147	
..do....	60	60	60	68	75	68	68	68	68	68	68	60	60	60	60	68	75	75	68	68	65	65	
..do....	101	101	101	194	230	194	194	194	194	194	194	101	101	101	101	194	230	230	194	194	159	159	
..do....	97	97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147	
..do....	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
..do....	97	97	97	183	183	183	183	183	183	183	183	97	97	97	97	183	183	183	183	183	147	147	
..do....	97	97	97	183	183	Special rate.	183	183	183	183	183	97	97	97	97	183	183	183	183	183	147	147	
..do....	55	55	55	55	55	..do....	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
..do....	97	97	97	183	212	..do....	183	183	183	183	183	97	97	97	97	183	212	212	212	212	147	147	
..do....	55	55	55	55	55	..do....	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
..do....	37	37	37	37	37	..do....	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
..do....	50	50	50	50	50	..do....	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
..do....	55	55	55	55	55	..do....	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
..do....	48	48	48	48	48	..do....	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
..do....	45	45	45	45	45	..do....	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
..do....	63	63	63	63	63	..do....	63	63	63	63	63	63	63	63	63	63	93	63	63	63	63	63	
..do....	63	63	90	90	90	..do....	90	90	90	90	90	63	63	63	63	90	90	90	90	90	90	90	
..do....	80	80	118	145	..do....	118	118	118	118	80	80	80	80	80	118	145	145	118	118	90	90	90	
..do....	96	96	145	162	..do....	145	145	145	145	96	96	96	96	96	145	162	162	145	145	118	118	118	
..do....	96	96	150	173	..do....	150	150	150	150	96	96	96	96	96	150	173	173	150	150	118	118	118	
..do....	Special rate.		150	173	..do....	150	150	150	150	96	96	96	96	96	150	173	173	150	150	118	118	118	
..do....	96	96	150	173	..do....	150	150	150	150	96	96	96	96	96	150	173	173	150	150	118	118	118	
..do....	Special rate.		150	173	..do....	150	150	150	150	96	96	96	96	96	150	173	173	150	150	118	118	118	
..do....	..do....	106	123	..do....	106	106	106	106	106	64	64	64	64	64	106	123	123	106	106	82	82	82	
..do....	..do....	82	94	..do....	82	82	82	82	82	59	59	59	59	59	82	94	94	82	82	62	62	62	
..do....	..do....	82	90	..do....	82	82	82	82	82	59	59	59	59	59	82	90	90	82	82	69	69	69	
..do....	..do....	75	80	..do....	75	75	75	75	75	59	59	59	59	59	75	80	80	75	75	69	69	69	
..do....	..do....	69	77	..do....	69	69	69	69	69	52	52	52	52	52	69	77	77	69	69	63	63	63	
..do....	..do....	60	60	..do....	60	60	60	60	60	52	52	52	52	52	60	60	60	60	60	69	69	69	
..do....	..do....	60	60	..do....	60	60	60	60	60	59	59	59	59	59	60	60	60	60	60	69	69	69	
..do....	..do....	100	112	..do....	100	100	100	100	100	64	64	64	64	64	100	112	112	100	100	81	81	81	
..do....	..do....	128	144	..do....	128	128	128	128	128	78	78	78	78	78	128	144	144	128	128	100	100	100	
..do....	..do....	143	175	..do....	143	143	143	143	143	74	74	74	74	74	143	175	175	143	143	114	114	114	
90	90	90	90	166	198	166	166	166	166	90	90	90	90	90	166	198	198	166	166	133	133	133	
81	81	81	81	143	166	64	64	143	143	64	64	81	81	81	143	166	166	143	143	114	114	114	
64	64	64	64	100	112	52	52	100	100	52	52	64	64	64	100	112	112	100	100	82	82	82	
64	64	64	64	103	114	55	55	103	103	55	55	64	64	64	103	114	114	103	103	82	82	82	
53	53	53	53	75	86	45	45	75	75	45	45	53	53	53	75	86	86	75	75	60	60	60	
64	64	64	64	64	114	55	55	103	103	55	55	64	64	64	103	114	114	103	103	82	82	82	
53	53	53	53	75	86	45	45	75	75	45	45	53	53	53	75	86	86	75	75	60	60	60	
48	48	48	48	65	70	40	40	65	65	40	40	48	48	48	65	70	70	65	65	56	56	56	
53	53	53	53	56	56	43	43	56	56	43	43	53	53	53	56	56	56	56	56	56	56	56	
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45	
38	38	38	38	38	38	27	27	38	38	38	38	27	27	38	38	38	38	38	38	38	38	38	
64	64	64	64	103	114	55	55	103	103	55	55	64	64	64	103	114	114	103	103	82	82	82	
75	75	75	75	123	139	123	123	123	123	59	59	75	75	75	123	139	139	123	123	97	97	97	
75	75	59	59	123	139	123	123	123	123	59	59	75	75	75	123	139	139	123	123	97	97	97	
75	75	60	60	123	139	123	123	123	123	60	60	76	76	76	123								

TABLE 27.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 867 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1873—Aug.	11.....	49	49	49	49	49	49	49	39	39	49	49	39	39	39	39	49	39	39
	Aug. 16.....	48	48	48	48	48	48	48	38	38	48	48	38	38	38	38	48	38	38
	Aug. 26.....	49	49	49	49	49	49	49	39	39	49	49	39	39	39	39	49	39	39
	Sept. 17.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44
1874—Jan.	1.....	113	113	113	113	113	113	113	55	55	102	102	71	71	86	86	113	55	55
	Aug. 3.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44
1875—Jan.	20.....	113	113	113	113	113	113	113	55	55	102	102	71	71	86	86	113	55	55
	Feb. 23.....	113	113	113	113	113	113	113	39	39	102	102	71	71	86	86	113	39	39
	Mar. 17.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44
	Apr. 6.....	71	71	71	71	71	71	71	39	39	65	65	49	49	60	60	71	39	39
	Apr. 23.....	50	50	50	50	50	50	50	35	35	50	50	45	45	45	45	50	35	35
	May 18.....	50	50	50	50	50	50	50	35	35	50	50	45	45	45	45	50	35	35
	May 29.....	38	38	38	38	38	38	38	27	27	38	38	33	33	35	35	38	27	27
	Aug. 12.....	60	60	60	60	60	60	60	28	28	49	49	34	34	39	39	60	28	28
	Nov. 15.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44
	Dec. 22.....	39	39	39	39	39	39	39	23	23	34	34	28	28	28	28	39	23	23
1876—Jan.	10.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44
	June 2.....	86	86	86	86	86	86	86	28	28	81	81	34	34	71	71	86	28	28
	June 12.....	34	34	34	34	34	34	34	24	24	34	34	24	24	34	34	34	24	24
	July 28.....	23	23	23	23	23	23	23	18	18	23	23	18	18	23	23	23	18	18
	Aug. 7.....	34	34	34	34	34	34	34	24	24	34	34	24	24	34	34	34	24	24
	Dec. 18.....	60	60	60	60	60	60	60	34	34	55	55	39	39	49	49	60	34	34
1877—Mar.	12.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86	44	44
	Oct. 8.....	86	86	86	86	86	86	86	49	49	81	81	49	49	49	49	86	49	49
	Oct. 22.....	113	113	113	113	113	113	113	55	55	102	102	55	55	55	55	113	55	55
	Dec. 10.....	113	113	113	113	113	113	113	55	55	92	92	55	55	55	55	113	55	55
1878—Feb.	10.....	86	86	86	86	86	86	86	49	49	71	71	49	49	49	49	86	49	49
1880—July	1.....	83	83	83	83	83	83	83	46	46	68	68	46	46	46	46	83	46	46
1881—Aug	6.....	52	52	52	52	52	52	52	24	24	38	38	24	24	24	24	52	24	24
	Nov. 14.....	68	68	68	68	68	68	68	34	34	57	57	34	34	34	34	68	34	34
1882—Jan.	24.....	52	52	52	52	52	52	52	24	24	38	38	24	24	24	24	52	24	24
	July 1.....	68	68	68	68	68	68	68	36	36	57	57	36	36	36	36	68	31	31
	Nov. 1.....	83	83	83	83	83	83	83	41	41	68	68	41	41	41	41	83	41	41
1883—June	22.....	83	83	83	83	83	83	83	41	41	68	68	41	41	41	41	83	31	31
1885—Jan.	1.....	82	82	82	82	82	82	82	40	40	67	67	40	40	40	40	82	30	30
	Jan. 26.....	56	56	56	56	56	56	56	30	30	45	45	30	30	30	30	56	22	22
	June 1.....	45	45	45	45	45	45	45	22	22	35	35	22	22	22	22	45	19	19
	Oct. 5.....	67	67	67	67	67	67	67	30	30	56	56	30	30	30	30	67	24	24
	Nov. 18.....	82	82	82	82	82	82	82	40	40	67	67	40	40	40	40	82	30	30
1886—Mar.	10.....	75	75	75	75	75	75	75	37	37	61	61	37	37	37	37	75	27	27
	Aug. 26.....	75	51	75	75	65	50	30	35	25	65	65	30	30	30	30	75	35	25
1887—Apr.	1.....	75	51	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
	June 13.....	75	50	75	75	65	50	30	30	25	65	65	35	30	35	25	75	35	25
1888—Jan.	9.....	75	50	75	75	65	50	33	38½	27½	65	65	38½	33	38½	27½	75	38½	27½
	Mar. 5.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
	Nov. 12.....	50	35	50	50	40	35	25	30	20	40	40	30	25	30	20	50	30	20
	Dec. 17.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1891—Apr.	9.....	75	50	75	75	65	30	25	35	25	65	65	35	25	35	25	75	35	25
1892—Mar.	16.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	21
	May 2.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	25

NEW YORK, N. Y., TO LOUISVILLE, KY.—Continued.

Boston, 1,017 miles; Philadelphia, 777 miles; Baltimore, 703 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.				Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.			Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
39	39	39	39	49	49	39	39	49	49	49	49	39	39	39	39	49	Sp'l rate.	39	49	49	39	39
38	38	38	38	48	48	38	38	48	48	48	48	38	38	38	38	48	.do.	38	48	48	38	38
39	39	39	39	49	49	39	39	49	49	49	49	39	39	39	39	49	.do.	39	49	49	39	39
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
71	71	55	55	102	113	55	55	102	102	102	102	55	55	71	71	102	.do.	71	102	102	86	86
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
71	71	55	55	102	113	55	55	102	102	102	102	55	55	71	71	102	.do.	71	102	102	86	86
71	71	55	55	102	113	55	55	102	102	102	102	55	55	71	71	102	.do.	71	102	102	86	86
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
49	49	39	39	65	71	39	39	65	65	65	65	39	39	49	49	65	.do.	49	65	65	60	60
45	45	35	35	50	50	35	35	50	50	50	50	35	35	45	45	50	.do.	45	50	50	45	45
45	45	40	40	50	50	40	40	50	50	50	50	40	40	45	45	50	.do.	45	50	50	45	45
33	33	27	27	38	38	27	27	38	38	38	38	27	27	33	33	38	.do.	33	38	38	35	35
34	34	28	28	49	60	28	28	49	49	49	49	28	28	34	34	49	.do.	34	49	49	39	39
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
28	28	23	23	34	39	23	23	34	34	34	34	23	23	28	28	34	.do.	28	34	34	28	28
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
34	34	28	28	81	86	28	28	81	81	81	81	28	28	34	34	81	.do.	34	81	81	71	71
24	24	24	24	34	34	24	24	34	34	34	34	24	24	24	24	34	.do.	24	34	34	34	34
18	18	18	18	23	23	18	18	23	23	23	23	18	18	18	18	23	.do.	18	23	23	23	23
24	24	24	24	34	34	24	24	34	34	34	34	24	24	24	24	34	.do.	24	34	34	34	34
39	39	34	34	55	60	34	34	55	55	55	55	34	34	39	39	55	.do.	39	55	55	49	49
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
49	49	49	49	81	86	49	49	49	49	81	81	49	49	49	49	81	.do.	49	81	49	49	49
55	55	55	55	102	113	55	55	55	55	102	102	55	55	55	55	102	.do.	55	102	55	55	55
51	51	55	55	92	113	55	55	55	55	92	92	55	55	55	55	92	.do.	55	92	55	55	55
49	49	49	49	71	86	49	49	49	49	71	71	49	49	49	49	71	.do.	49	71	49	49	49
46	46	46	46	68	83	46	46	46	46	68	68	46	46	46	46	68	.do.	46	68	46	46	46
24	24	24	24	38	52	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
34	34	34	34	57	68	34	34	34	34	57	57	34	34	34	34	57	.do.	34	57	34	34	34
24	24	24	24	38	52	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
31	31	36	36	57	68	36	36	36	36	57	57	36	36	36	36	57	.do.	36	57	36	36	36
41	41	41	41	68	83	41	41	41	41	68	68	41	41	41	41	68	.do.	41	68	41	41	41
31	31	41	41	68	83	41	41	41	41	68	68	41	41	41	41	68	.do.	41	68	41	41	41
30	30	40	40	67	82	40	40	40	40	67	67	40	40	40	40	67	.do.	40	82	40	40	40
22	22	30	30	45	56	30	30	30	30	45	45	30	30	30	30	45	.do.	30	45	30	30	30
19	19	22	22	35	45	22	22	22	22	35	35	22	22	22	22	35	.do.	22	35	22	22	22
24	24	30	30	56	67	30	30	30	30	56	56	30	30	30	30	56	.do.	30	56	30	30	30
30	30	40	40	67	82	40	40	40	40	67	67	40	40	40	40	67	.do.	40	67	40	40	40
27	27	37	37	61	75	37	37	37	37	61	61	37	37	37	37	61	.do.	37	61	37	37	37
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
38½	33	38½	27½	65	75	38	33	50	38½	50	38½	38½	27½	38½	33	65	50	33	38½	33	50	33
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
30	25	30	20	40	50	30	25	30	35	35	30	30	20	30	25	40	35	25	30	25	35	25
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30

TABLE 28.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE, VIA SHORTEST ROUTE.—From New York, 757 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.	Less than carloads.	Carloads.						
1867—	Jan. 1.....	176	176	176	176	176	176	176	176	150	150	150	150	120	120	150	150	176	76	76
	Nov. 5.....	190	190	190	190	190	190	190	190	160	160	160	160	130	130	160	160	190	80	80
1868—	Feb. 4.....	190	190	190	190	190	190	190	190	Special rate.		160	160	80	80	130	130	190	Special rate.	
	June 4.....	176	176	176	176	176	176	176	176	..do....	..do....	150	150	76	76	120	120	176	..do....	..do....
	Aug. 10.....	140	140	140	140	140	140	140	140	..do....	..do....	120	120	76	76	112	112	140	..do....	..do....
	Sept. 7.....	176	176	176	176	176	176	176	176	..do....	..do....	150	150	76	76	120	120	176	..do....	..do....
	Oct. 1.....	60	60	60	60	60	60	60	60	..do....	..do....	56	56	45	45	50	50	60	..do....	..do....
	Dec. 7.....	190	190	190	190	190	190	190	190	..do....	..do....	160	160	80	80	130	130	190	..do....	..do....
1869—	Feb. 1.....	176	176	176	176	176	176	176	176	..do....	..do....	150	150	76	76	120	120	176	..do....	..do....
	Feb. 17.....	40	40	40	40	40	40	40	40	..do....	..do....	40	40	40	40	40	40	40	..do....	..do....
	Mar. 15.....	150	150	150	150	150	150	150	150	..do....	..do....	150	150	76	76	120	120	150	..do....	..do....
	Apr. 15.....	150	150	150	150	150	150	150	150	..do....	..do....	150	150	76	26	120	120	150	..do....	..do....
	May 12.....	40	40	40	40	40	40	40	40	..do....	..do....	40	40	40	40	40	40	40	..do....	..do....
	July 1.....	176	176	176	176	176	176	176	176	..do....	..do....	150	150	76	76	120	120	176	..do....	..do....
	Aug. 2.....	40	40	40	40	40	40	40	40	..do....	..do....	40	40	40	40	40	40	40	..do....	..do....
	Aug. 11.....	25	25	25	25	25	25	25	25	..do....	..do....	25	25	25	25	25	25	25	..do....	..do....
	Aug. 23.....	35	35	35	35	35	35	35	35	..do....	..do....	35	35	35	35	35	35	35	..do....	..do....
	Aug. 30.....	40	40	40	40	40	40	40	40	..do....	..do....	40	40	40	40	40	40	40	..do....	..do....
	Sept. 22.....	35	35	35	35	35	35	35	35	..do....	..do....	35	35	35	35	35	35	35	..do....	..do....
	Oct. 4.....	48	48	48	48	48	48	48	48	..do....	..do....	48	48	48	48	48	48	48	..do....	..do....
	Oct. 9.....	70	70	70	70	70	70	70	70	..do....	..do....	70	70	48	48	70	70	70	..do....	..do....
	Oct. 13.....	118	118	118	118	118	118	118	118	..do....	..do....	95	95	62	62	70	70	118	..do....	..do....
	Nov. 1.....	132	132	132	132	132	132	132	132	..do....	..do....	118	118	76	76	94	94	132	..do....	..do....
	Nov. 29.....	142	142	142	142	142	142	142	142	..do....	..do....	122	122	76	76	94	94	142	..do....	..do....
1870—	Apr. 14.....	142	142	142	142	142	142	142	142	..do....	..do....	122	122	76	76	94	94	142	36	36
	May 7.....	142	142	142	142	142	142	142	142	..do....	..do....	122	122	76	76	94	94	142	36	36
	June 18.....	100	100	100	100	100	100	100	100	..do....	..do....	80	80	50	50	65	65	100	36	36
	July 13.....	74	74	74	74	74	74	74	74	..do....	..do....	65	65	45	45	55	55	74	36	36
	July 18.....	70	70	70	70	70	70	70	70	..do....	..do....	65	65	45	45	55	55	70	36	36
	July 21.....	65	65	65	65	65	65	65	65	..do....	..do....	60	60	45	45	55	55	65	36	36
	July 25.....	60	60	60	60	60	60	60	60	..do....	..do....	54	54	40	40	50	50	60	36	36
	July 28.....	45	45	45	45	45	45	45	45	..do....	..do....	45	45	40	40	45	45	45	36	36
	Aug. 12.....	45	45	45	45	45	45	45	45	..do....	..do....	45	45	45	45	45	45	45	Special rate.	
	Aug. 22.....	90	90	90	90	90	90	90	90	..do....	..do....	80	80	50	50	65	65	90	..do....	..do....
	Sept. 8.....	118	118	118	118	118	118	118	118	..do....	..do....	104	104	62	62	80	80	118	..do....	..do....
	Nov. 28.....	146	146	146	146	146	146	146	146	..do....	..do....	118	118	59	59	93	93	146	..do....	..do....
	Dec. 26.....	166	166	166	166	166	166	166	166	55	55	138	138	73	73	110	110	166	55	55
1871—	Feb. 20.....	138	138	138	138	138	138	138	138	51	51	118	118	65	65	95	95	138	51	51
	Mar. 7.....	90	90	90	90	90	90	90	90	40	40	80	80	50	50	65	65	90	40	40
	Mar. 13.....	93	93	93	93	93	93	93	93	42	42	83	83	51	51	65	65	93	42	42
	May 18.....	69	69	69	69	69	69	69	69	34	34	59	59	41	41	46	46	69	34	34
	June 18.....	93	93	93	93	93	93	93	93	42	42	83	83	51	51	65	65	93	42	42
	July 8.....	69	69	69	69	69	69	69	69	34	34	59	59	41	41	46	46	69	34	34
	July 26.....	55	55	55	55	55	55	55	55	30	30	51	51	37	37	42	42	55	30	30
	July 28.....	40	40	40	40	40	40	40	40	30	30	40	40	40	40	40	40	40	30	30
	Aug. 16.....	35	35	35	35	35	35	35	35	25	25	35	35	35	35	35	35	35	25	25
	Aug. 22.....	32	32	32	32	32	32	32	32	24	24	32	32	32	32	32	32	32	24	24
	Sept. 1.....	28	28	28	28	28	28	28	28	23	23	28	28	28	28	28	28	28	23	23
	Sept. 8.....	28	28	28	28	28	28	28	28	22	22	28	28	28	28	28	28	28	22	22
	Nov. 27.....	93	93	93	93	93	93	93	93	42	42	83	83	51	51	65	65	93	42	42
	Dec. 15.....	115	115	115	115	115	115	115	115	46	46	101	101	60	60	78	78	115	46	46
1872—	Apr. 27.....	115	115	115	115	115	115	115	115	46	46	101	101	60	60	78	78	115	46	46
	Aug. 1.....	70	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
	Sept. 1.....	115	115	115	115	115	115	115	115	46	46	101	104	60	60	78	78	115	46	46
	Sept. 2.....	92	92	92	92	92	92	92	92	41	41	83	83	51	51	64	64	92	41	41
	Oct. 14.....	115	115	115	115	115	115	115	115	46	46	101	101	60	60	78	78	115	46	46
1873—	Apr. 14.....	92	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92	41	41
	June 11.....	70	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
	Aug. 11.....	37	37	37	37	37	37	37	37	28	28	37	37	28	28	28	28	37	28	28
	Aug. 12.....	40	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30

NEW YORK, N. Y., TO CINCINNATI, OHIO.

Boston, 907 miles; Philadelphia, 667 miles; Baltimore, 593 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agricul- tural im- plements.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
76	76	76	76	150	176	150	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
80	76	80	80	160	190	160	160	160	160	160	160	80	80	80	80	160	190	190	160	160	130	130
Special rate.		80	80	160	190	160	160	160	160	160	160	80	80	80	80	160	190	190	160	160	130	130
..do....		76	76	150	176	150	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
..do....		76	76	120	140	120	120	120	120	120	120	76	76	76	76	120	140	140	120	120	112	112
..do....		76	76	150	176	150	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
..do....		45	45	56	60	56	56	56	56	56	56	45	45	45	45	56	60	60	56	56	50	50
..do....		80	80	160	190	160	160	160	160	160	160	80	80	80	80	160	190	190	160	160	130	130
..do....		76	76	150	176	150	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		76	76	150	150	150	150	150	150	150	150	76	76	76	76	150	150	150	150	150	120	120
..do....		76	76	150	150	Special rate.	150	150	150	150	150	76	76	76	76	150	150	150	150	150	120	120
..do....		40	40	40	40	..do....	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		76	76	150	176	..do....	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
..do....		40	40	40	40	..do....	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		25	25	25	25	..do....	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
..do....		35	35	35	35	..do....	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		40	40	40	40	..do....	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		35	35	35	35	..do....	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		48	48	48	48	..do....	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
..do....		48	48	70	70	..do....	70	70	70	70	70	48	48	48	48	70	70	70	70	70	70	70
..do....		62	62	95	118	..do....	95	95	95	95	95	62	62	62	62	95	118	118	95	95	70	70
..do....		76	76	118	132	..do....	118	118	118	118	118	76	76	76	76	118	132	132	118	118	94	94
..do....		76	76	122	142	..do....	122	122	122	122	122	76	76	76	76	122	142	142	122	122	94	94
..do....		76	76	122	142	..do....	122	122	122	122	122	76	76	76	76	122	142	142	122	122	94	94
..do....		Special rate.		122	142	..do....	122	122	122	122	122	76	76	76	76	122	142	142	122	122	94	94
..do....		..do....		80	100	..do....	80	80	80	80	80	50	50	50	50	80	100	100	80	80	65	65
..do....		..do....		65	74	..do....	65	65	65	65	65	45	45	45	45	65	74	74	65	65	55	55
..do....		..do....		65	70	..do....	65	65	65	65	65	45	45	45	45	65	70	70	65	65	55	55
..do....		..do....		60	65	..do....	60	60	60	60	60	45	45	45	45	60	65	65	60	60	55	55
..do....		..do....		54	60	..do....	54	54	54	54	54	40	40	40	40	54	60	60	54	54	50	50
..do....		..do....		45	45	..do....	45	45	45	45	45	40	40	40	40	45	45	45	45	45	45	45
..do....		..do....		45	45	..do....	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
..do....		..do....		80	90	..do....	80	80	80	80	80	50	50	50	50	80	90	90	80	80	65	65
..do....		..do....		104	118	..do....	104	104	104	104	104	62	62	62	62	104	118	118	104	104	80	80
..do....		..do....		118	146	..do....	118	118	118	118	118	59	59	59	59	118	146	166	118	118	93	93
73	73	73	73	138	166	138	138	138	138	138	138	73	73	73	73	138	166	166	138	138	110	110
65	65	65	65	118	138	51	51	118	118	118	118	51	51	65	65	118	138	138	118	118	93	93
50	50	50	50	80	90	40	40	80	80	80	80	40	40	50	50	80	90	90	80	80	65	65
51	51	51	51	83	93	42	42	83	83	83	83	42	42	51	51	83	93	93	83	83	65	65
41	41	41	41	59	69	34	34	59	59	59	59	34	34	41	41	59	69	69	59	59	46	46
51	51	51	51	83	93	42	42	83	83	83	83	42	42	51	51	83	93	93	83	83	65	65
41	41	41	41	59	69	34	34	59	59	59	59	34	34	41	41	59	69	69	59	59	46	46
37	37	37	37	51	55	30	30	51	51	51	51	30	30	37	37	51	55	55	51	51	42	42
40	40	40	40	40	40	30	30	40	40	40	40	30	30	40	40	40	40	40	40	40	40	40
35	35	35	35	35	35	25	25	35	35	35	35	25	25	35	35	35	35	35	35	35	35	35
32	32	32	32	32	32	24	24	32	32	32	32	24	24	32	32	32	32	32	32	32	32	32
28	28	28	28	28	28	23	23	28	28	28	28	23	23	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	22	22	28	28	28	28	22	22	28	28	28	28	28	28	28	28	28
51	51	51	51	83	93	42	42	83	83	83	83	42	42	51	51	83	93	93	83	83	65	65
60	60	60	60	101	115	101	101	101	101	101	101	46	46	60	60	101	115	115	101	151	78	78
60	60	46	46	101	115	101	101	101	101	101	101	46	46	60	60	101	115	115	101	101	78	78
41	41	32	32	64	70	64	64	64	64	64	64	32	32	41	41	64	70	70	64	64	55	55
60	60	60	60	101	115	101	101	101	101	101	101	46	46	60	60	101	115	115	101	101	78	78
51	51	41	41	83	92	83	83	83	83	83	83	41	41	51	51	83	92	92	83	83	64	64
60	60	46	46	101	115	46	46	101	101	101	101	46	46	60	60	101	115	115	101	101	78	78
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	Sp'l rate.	55	83	83	70	70
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	..do..	41	64	64	55	55
28	28	28	28	37	37	28	28	37	37	37	37	28	28	28	28	37	..do..	28	37	37	28	28
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	..do..	30	40	40	30	30

TABLE 28.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE, VIA SHORTEST ROUTE.—From New York, 757 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.	Less than carloads.	Carloads.						
1873—Aug.	16.....	37	37	37	37	37	37	37	37	28	28	37	37	28	28	28	28	37	28	28
	Sept. 17.....	70	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
1874—Jan.	1.....	92	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92	41	41
	Aug. 3.....	70	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
1875—Jan.	20.....	92	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92	41	41
	Feb. 23.....	92	92	92	92	92	92	92	92	41	28	83	83	55	55	70	70	92	41	28
	Mar. 17.....	70	70	70	70	70	70	70	70	28	28	64	64	41	41	55	55	70	28	28
	Apr. 6.....	55	55	55	55	55	55	55	55	28	28	51	51	37	37	46	46	55	28	28
	Apr. 23.....	40	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	25
	May 18.....	40	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	25
	May 29.....	28	28	28	28	28	28	28	19	19	28	28	23	23	25	25	28	19	19	
	Aug. 12.....	46	46	46	46	46	46	46	19	19	37	37	23	23	28	28	46	19	19	
	Nov. 15.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32	
	Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15	
1876—Jan.	10.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32	
	June 2.....	70	70	70	70	70	70	70	20	20	64	64	25	25	55	55	70	20	20	
	June 12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16	
	July 28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10	
	Aug. 7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16	
	Dec. 18.....	46	46	46	46	46	46	46	23	23	41	41	28	28	37	37	46	23	23	
1877—Mar.	12.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32	
	Oct. 8.....	70	70	70	70	70	70	70	37	37	64	64	37	37	37	37	70	37	37	
	Oct. 22.....	92	92	92	92	92	92	41	41	41	83	83	41	41	41	41	92	41	41	
	Dec. 10.....	92	92	92	92	92	92	41	41	41	73	73	41	41	41	41	92	41	41	
1878—Feb.	15.....	70	70	70	70	70	70	37	37	37	55	55	37	37	37	37	70	37	37	
1881—Aug.	6.....	41	41	41	41	41	41	18	18	18	29	29	18	18	18	18	41	18	18	
	Nov. 14.....	55	55	55	55	55	55	26	26	26	46	46	26	26	26	26	55	26	26	
1882—Jan.	24.....	41	41	41	41	41	41	18	18	18	32	32	18	18	18	18	41	18	18	
	June 22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	23	
	July 1.....	55	55	55	55	55	55	28	28	28	46	46	28	28	28	28	55	23	23	
	Nov. 1.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	32	32	
1883—June	22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	23	
1885—Jan.	26.....	46	46	46	46	46	46	23	23	23	37	37	23	23	23	23	46	17	17	
	June 1.....	37	37	37	37	37	37	17	17	17	28	28	17	17	17	17	37	14	14	
	Oct. 5.....	55	55	55	55	55	55	23	23	23	46	46	23	23	23	23	55	18	18	
	Nov. 18.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	23	
1886—Mar.	10.....	65	65	65	65	65	65	30	30	30	52	52	30	30	30	30	65	22	22	
	Aug. 26.....	65	44	65	65	65	65	30	30	30	52	52	30	30	30	30	65	22	22	
1887—Apr.	1.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	22	
1888—Jan.	9.....	65	44	65	65	57	44	29	33	24	57	57	33	29	33	24	65	33	24	
	Mar. 5.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	22	
	Nov. 12.....	44	30	44	44	35	30	22	26	17	35	35	26	22	26	17	44	26	17	
	Dec. 17.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	22	
1891—Apr.	9.....	65	44	65	65	57	26	22	30	22	57	57	30	22	30	22	65	30	22	
1892—Mar.	6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	18	
	May 2.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	22	
	June 6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	20	

NEW YORK, N. Y., TO CINCINNATI, OHIO—Continued.

Boston, 907 miles; Philadelphia, 667 miles; Baltimore, 593 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
28	28	28	28	37	37	28	28	37	37	37	37	28	28	28	28	37	Sp'l rate.	28	37	37	28	28
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	do.	41	64	64	55	55
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	do.	55	83	83	70	70
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	do.	41	64	64	55	55
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	do.	55	83	83	70	70
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	do.	55	83	83	70	70
28	28	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	do.	41	64	64	55	55
37	37	28	28	51	55	28	28	51	51	51	51	28	28	37	37	51	do.	37	51	51	46	46
35	35	25	25	40	40	25	25	40	40	40	40	25	25	35	35	40	do.	35	40	40	35	35
35	35	30	30	40	40	30	30	40	40	40	40	30	30	35	35	40	do.	35	40	40	35	35
23	23	19	19	28	28	19	19	28	28	28	28	19	19	23	23	28	do.	23	28	28	25	25
23	23	19	19	37	46	19	19	37	37	37	37	19	19	23	23	37	do.	23	37	37	28	28
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	do.	41	64	64	55	55
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	do.	20	25	25	20	20
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	do.	41	64	64	55	55
25	25	20	20	64	70	20	20	64	64	64	64	20	20	25	25	64	do.	25	64	64	55	55
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	do.	10	15	15	15	15
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	do.	16	25	25	25	25
28	28	23	23	41	46	23	23	41	41	41	41	23	23	28	28	41	do.	28	41	41	37	37
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	do.	41	64	64	55	55
37	37	37	37	64	70	37	37	37	37	64	64	37	37	37	37	64	do.	37	64	37	37	37
41	41	41	41	83	92	41	41	41	41	83	83	41	41	41	41	83	do.	41	83	41	41	41
41	41	41	41	73	92	41	41	41	41	73	73	41	41	41	41	73	do.	41	73	41	41	41
37	37	37	37	55	70	37	37	37	37	55	55	37	37	37	37	55	do.	37	55	37	37	37
18	18	18	18	29	41	18	18	18	18	29	29	18	18	18	18	29	do.	18	29	18	18	18
26	26	26	26	46	55	26	26	26	26	46	46	26	26	26	26	46	do.	26	46	26	26	26
18	18	18	18	32	41	18	18	18	18	32	32	18	18	18	18	32	do.	18	32	18	18	18
23	23	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	do.	32	55	32	32	32
23	23	28	28	46	55	28	28	28	28	46	46	28	28	28	28	46	do.	28	46	28	28	28
32	32	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	do.	32	55	32	32	32
23	23	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	do.	32	55	32	32	32
17	17	23	23	37	46	23	23	23	23	37	37	23	23	23	23	37	do.	23	37	23	23	23
14	14	17	17	28	37	17	17	17	17	28	28	17	17	17	17	28	do.	17	28	17	17	17
18	18	23	23	46	55	23	23	23	23	46	46	23	23	23	23	46	do.	23	46	23	23	23
23	23	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	do.	32	55	32	32	32
22	22	30	30	52	65	30	30	30	30	52	52	30	30	30	26	52	do.	30	52	30	30	30
22	22	30	30	52	65	30	30	30	30	52	52	30	30	30	26	52	do.	30	52	30	30	30
30	26	30	30	57	65	30	26	44	30	44	30	30	22	30	26	57	44	26	30	26	44	26
33	29	33	24	57	65	33	29	44	33	44	33	33	24	33	29	57	44	29	33	29	44	29
30	26	30	22	57	65	30	26	44	30	44	30	30	22	30	26	57	44	26	30	26	44	26
26	22	26	17	35	44	26	22	30	26	30	26	26	17	26	22	35	30	22	26	22	30	22
30	26	30	22	57	65	30	26	44	30	44	30	30	22	30	26	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57																		

TABLE 29.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 825 miles;
[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds).																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
												Less than carloads.	Carloads.							
1867—Jan.	1.....	183	183	183	183	183	183	183	183	156	156	156	156	124	124	156	156	183	79	79
Nov.	5.....	199	199	199	199	199	199	199	199	166	166	166	166	135	135	166	166	199	83	83
1868—Feb.	4.....	199	199	199	199	199	199	199	199	Special	166	166	83	83	135	135	199	Special		
June	4.....	183	183	183	183	183	183	183	183	do....	156	156	70	70	124	124	183	do....		
Aug.	10.....	146	146	146	146	146	146	146	146	do....	125	125	79	79	117	117	146	do....		
Sept.	7.....	183	183	183	183	183	183	183	183	do....	156	156	79	79	124	124	183	do....		
Oct.	1.....	65	65	65	65	65	65	65	65	do....	58	58	48	48	53	53	65	do....		
Dec.	7.....	199	199	199	199	199	199	199	199	do....	166	166	83	83	135	135	199	do....		
1869—Feb.	1.....	183	183	183	183	183	183	183	183	do....	156	156	79	79	124	124	183	do....		
Feb.	17.....	45	45	45	45	45	45	45	45	do....	45	45	45	45	45	45	45	do....		
Mar.	15.....	156	156	156	156	156	156	156	156	do....	156	156	79	79	124	124	156	do....		
April	12.....	156	156	156	156	156	156	156	156	do....	156	156	79	79	124	124	156	do....		
July	1.....	183	183	183	183	183	183	183	183	do....	156	156	79	79	124	124	183	do....		
Aug.	2.....	45	45	45	45	45	45	45	45	do....	45	45	45	45	45	45	45	do....		
Aug.	11.....	30	30	30	30	30	30	30	30	do....	30	30	30	30	30	30	30	do....		
Aug.	23.....	38	38	38	38	38	38	38	38	do....	38	38	38	38	38	38	38	do....		
Aug.	30.....	42	42	42	42	42	42	42	42	do....	42	42	42	42	42	42	42	do....		
Sept.	22.....	37	37	37	37	37	37	37	37	do....	37	37	37	37	37	37	37	do....		
Oct.	4.....	50	50	50	50	50	50	50	50	do....	50	50	50	50	50	50	50	do....		
Oct.	9.....	73	73	73	73	73	73	73	73	do....	73	73	50	50	73	73	73	do....		
Oct.	13.....	122	122	122	122	122	122	122	122	do....	98	98	64	64	74	74	122	do....		
Nov.	1.....	137	137	137	137	137	137	137	137	do....	123	123	79	79	98	98	137	do....		
Nov.	29.....	148	148	148	148	148	148	148	148	do....	127	127	79	79	98	98	148	do....		
1870—April	14.....	148	148	148	148	148	148	148	148	do....	127	127	79	79	98	98	148	38	38	
May	7.....	148	148	148	148	148	148	148	148	do....	127	127	79	79	98	98	148	38	38	
June	18.....	104	104	104	104	104	104	104	104	do....	83	83	53	53	67	67	104	38	38	
July	13.....	78	78	78	78	78	78	78	78	do....	67	67	47	47	57	57	78	38	38	
July	18.....	74	74	74	74	74	74	74	74	do....	67	67	47	47	57	57	74	38	38	
July	21.....	70	70	70	70	70	70	70	70	do....	65	65	47	47	57	57	70	38	38	
July	25.....	63	63	63	63	63	63	63	63	do....	56	56	42	42	52	52	63	38	38	
July	28.....	47	47	47	47	47	47	47	47	do....	47	47	42	42	47	47	47	38	38	
Aug.	12.....	47	47	47	47	47	47	47	47	do....	47	47	47	47	47	47	47	Special		
1870—Aug.	22.....	92	92	92	92	92	92	92	92	do....	83	83	53	53	67	67	92	do....		
Sept.	8.....	122	122	122	122	122	122	122	122	do....	108	108	64	64	83	83	122	do....		
Nov.	28.....	151	151	151	151	151	151	151	151	do....	122	122	61	61	96	96	151	do....		
Dec.	26.....	171	171	171	171	171	171	171	171	56	56	142	142	75	75	113	113	171	56	56
1871—Feb.	20.....	142	142	142	142	142	142	142	142	52	52	124	122	67	67	96	96	142	52	52
Mar.	7.....	92	92	92	92	92	92	92	92	42	42	83	83	53	53	67	67	92	42	42
Mar.	13.....	96	96	96	96	96	96	96	96	44	44	85	85	52	52	67	67	96	44	44
May	18.....	71	71	71	71	71	71	71	71	35	35	61	61	42	42	48	48	71	35	35
June	1.....	96	96	96	96	96	96	96	96	44	44	85	85	52	52	67	67	96	44	44
July	8.....	71	71	71	71	71	71	71	71	35	35	61	61	42	42	48	48	71	35	35
July	26.....	57	57	57	57	57	57	57	57	30	30	52	52	38	38	43	43	57	30	30
July	28.....	45	45	45	45	45	45	45	45	32	32	45	45	42	42	45	45	45	32	32
Aug.	16.....	38	38	38	38	38	38	38	38	27	27	38	38	38	38	38	38	38	27	27
Aug.	22.....	33	33	33	33	33	33	33	33	25	25	33	33	33	33	33	33	33	25	25
Sept.	1.....	29	29	29	29	29	29	29	29	24	24	29	29	29	29	29	29	29	24	24
Nov.	27.....	96	96	96	96	96	96	96	96	44	44	85	85	52	52	67	67	96	44	44
Dec.	15.....	118	118	118	118	118	118	118	118	47	47	104	104	62	62	80	80	118	47	47
1872—April	27.....	118	118	118	118	118	118	118	118	47	47	104	104	62	62	80	80	118	47	47
Aug.	1.....	71	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33
Sept.	1.....	118	118	118	118	118	118	118	118	47	47	104	104	62	62	80	80	118	47	47
Sept.	2.....	95	95	95	95	95	95	95	95	43	43	85	85	52	52	66	66	95	43	43
Oct.	14.....	118	118	118	118	118	118	118	118	47	47	104	104	62	62	80	80	118	47	47
1873—April	14.....	95	95	95	95	95	95	95	95	43	43	85	85	57	57	71	71	95	43	43
June	11.....	71	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33
Aug.	11.....	38	38	38	38	38	38	38	38	28	28	38	38	28	28	28	28	38	28	28
Aug.	12.....	40	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30
Aug.	21.....	38	38	38	38	38	38	38	38	28	28	38	38	28	28	28	28	38	28	28
Sept.	17.....	71	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33
1874—Jan.	1.....	95	95	95	95	95	95	95	95	43	43	85	85	57	57	71	71	95	43	43
Aug.	3.....	71	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33
1875—Jan.	20.....	95	95	95	95	95	95	95	95	43	43	85	85	57	57	71	71	95	43	43
Feb.	23.....	95	95	95	95	95	95	95	95	43	28	85	85	57	57	71	71	95	43	28

NEW YORK, N. Y., TO INDIANAPOLIS, IND.

Boston, 946 miles; Philadelphia, 735 miles; Baltimore, 708 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

(Commodities (rates in cents per 100 pounds.))																							
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather		Lead.		Nails.		Hardware.	Agri- cultural imple- ment.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
79	79	79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124	
83	83	83	83	166	199	166	166	166	166	166	166	83	83	83	83	166	199	199	166	166	135	135	
Special		83	83	166	199	166	166	166	166	166	166	83	83	83	83	166	199	199	166	166	135	135	
do		79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124	
do		79	79	125	146	125	125	125	125	125	125	79	79	79	79	125	146	146	125	125	117	117	
do		79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124	
do		48	48	58	65	58	58	58	58	58	58	48	48	48	48	58	65	65	58	58	53	53	
do		83	83	166	199	166	166	166	166	166	166	83	83	83	83	166	199	199	166	166	135	135	
do		79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124	
do		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
do		79	79	156	156	156	156	156	156	156	156	79	79	79	79	156	156	156	156	156	124	124	
do		79	79	156	156	Special		156	156	156	156	79	79	79	79	156	156	156	156	156	124	124	
do		79	79	156	183	do		156	156	156	156	79	79	79	79	156	183	156	156	156	124	124	
do		45	45	45	45	do		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
do		30	30	30	30	do		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
do		38	38	38	38	do		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
do		42	42	42	42	do		42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
do		37	37	37	37	do		37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
do		50	50	50	50	do		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
do		50	50	73	73	do		73	73	73	73	50	50	50	50	73	73	73	73	73	73	73	
do		64	64	98	122	do		98	98	98	98	64	64	64	64	98	122	122	98	98	74	74	
do		79	79	123	137	do		123	123	123	123	79	79	79	79	123	137	137	123	123	98	98	
do		79	79	127	148	do		127	127	127	127	79	70	79	79	127	148	148	127	127	98	98	
do		79	79	127	148	do		127	127	127	127	79	79	79	79	127	148	148	127	127	98	98	
do		Special		127	148	do		127	127	127	127	79	79	79	79	127	148	148	127	127	98	98	
do		do		83	104	do		83	83	83	83	53	53	53	53	83	104	104	83	83	67	67	
do		do		67	78	do		67	67	67	67	47	47	47	47	67	78	78	67	67	57	57	
do		do		67	74	do		67	67	67	67	47	47	47	47	67	74	74	67	67	57	57	
do		do		65	70	do		65	65	65	65	47	47	47	47	65	70	70	65	65	57	57	
do		do		56	63	do		56	56	56	56	42	42	42	42	56	63	63	56	56	52	52	
do		do		47	47	do		47	47	47	47	42	42	42	42	47	47	47	47	47	47	47	
do		do		47	47	do		47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	
do		do		83	92	do		83	83	83	83	53	53	53	53	83	92	92	83	83	67	67	
do		do		108	122	do		108	108	108	108	64	64	64	64	108	122	122	108	108	83	83	
do		do		122	151	do		122	122	122	122	61	61	61	61	122	151	151	122	122	96	96	
75	75	75	75	142	171	142	142	142	142	142	142	75	75	75	75	142	171	171	142	142	113	113	
67	67	67	67	122	142	52	52	122	122	122	122	52	52	67	67	122	142	142	122	122	96	96	
53	53	53	53	83	92	42	42	83	83	83	83	42	42	53	53	83	92	92	83	83	67	67	
52	52	52	52	85	96	44	44	85	85	85	85	44	44	52	52	85	96	96	85	85	67	67	
42	42	42	42	61	71	35	35	61	61	61	61	35	35	42	42	61	71	71	61	61	48	48	
52	52	52	52	85	96	44	44	85	85	85	85	44	44	52	52	85	96	96	85	85	67	67	
42	42	42	42	61	71	35	35	61	61	61	61	35	35	42	42	61	71	71	61	61	48	48	
38	38	38	38	52	57	30	30	52	52	52	52	30	30	38	38	52	57	57	52	52	43	43	
42	42	42	42	45	45	32	32	45	45	45	45	32	32	42	42	45	45	45	45	45	45	45	
38	38	38	38	38	38	27	27	38	38	38	38	27	27	38	38	38	38	38	38	38	38	38	
33	33	33	33	33	33	25	25	33	33	33	33	25	25	33	33	33	33	33	33	33	33	38	
29	29	29	29	29	29	24	24	29	29	29	29	24	24	29	29	29	29	29	29	29	29	29	
52	52	52	52	85	96	44	44	85	85	85	85	44	44	52	52	85	96	96	85	85	67	67	
62	62	62	62	104	118	104	104	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80	
62	62	47	47	104	118	104	104	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80	
43	43	33	33	66	71	66	66	66	66	66	66	33	33	43	43	66	71	71	66	66	57	57	
62	62	47	47	104	118	104	104	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80	
52	52	43	43	85	95	85	85	85	85	85	85	43	43	52	52	85	95	95	85	85	66	66	
62	62	47	47	104	118	47	47	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80	
57	57	43	43	85	95	43	43	85	85	85	85	43	43	57	57	85	Sp'l	57	85	85	71	71	
43	43	33	33	66	71	33	33	66	66	66	66												

TABLE 29.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 825 miles;

[NOTE.—Where the rates showed are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds.)																	
			Dry goods	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carload.		Less than carloads.	Carloads.
												Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1875—Mar.	17.....	71	71	71	71	71	71	71	28	28	66	66	43	43	57	57	71	28	28	
Apr.	6.....	57	57	57	57	57	57	57	28	28	52	52	38	38	47	47	57	28	28	
May	18.....	51	51	51	51	51	51	51	25	25	47	47	34	34	42	42	51	25	25	
May	29.....	28	28	28	28	28	28	28	19	19	28	28	24	24	26	26	28	19	19	
Aug.	12.....	47	47	47	47	47	47	47	19	19	38	38	24	24	28	28	47	19	19	
Nov.	15.....	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33	
Dec.	22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15	
1876—Jan.	10.....	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33	
June	2.....	71	71	71	71	71	71	71	20	20	66	66	25	25	57	57	71	20	20	
June	12.....	25	25	15	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16	
July	28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10	
Aug.	7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16	
Dec.	18.....	47	47	47	47	47	47	47	24	24	43	43	28	28	38	38	47	24	24	
1877—Mar.	12.....	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33	
Oct.	8.....	71	71	71	71	71	71	38	38	38	66	66	38	38	38	38	71	38	38	
Oct.	22.....	95	95	95	95	95	95	43	43	43	85	85	43	43	43	43	95	43	43	
Dec.	10.....	95	95	95	95	95	95	43	43	43	76	76	43	43	43	43	95	43	43	
1878—Feb.	15.....	71	71	71	71	71	71	38	38	38	57	57	38	38	38	38	71	38	38	
1881—Aug.	6.....	43	43	43	43	43	43	18	18	18	30	30	18	18	18	18	43	18	18	
Nov.	14.....	57	57	57	57	57	57	27	27	27	47	47	27	27	27	27	57	27	27	
1882—Jan.	24.....	43	43	43	43	43	43	18	18	18	32	32	18	18	18	18	43	18	18	
July	1.....	57	57	57	57	57	57	28	28	28	47	47	28	28	28	28	57	24	24	
Nov.	1.....	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	33	33	
1883—June	22.....	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	24	24	
1885—Jan.	26.....	47	47	47	47	47	47	24	24	24	38	38	24	24	24	24	47	17	17	
June	1.....	38	38	38	38	38	38	17	17	17	28	28	17	17	17	17	38	14	14	
Oct.	5.....	57	57	57	57	57	57	24	24	24	47	47	24	24	24	24	57	19	19	
Nov.	18.....	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	24	24	
1886—Mar.	10.....	70	70	70	70	70	70	33	33	33	56	56	33	33	33	33	70	23	23	
Aug.	26.....	70	47	70	70	70	70	33	33	33	56	56	33	33	33	33	70	23	23	
1887—Apr.	1.....	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	33	23	
1888—Jan.	9.....	70	47	70	70	60	47	31	36	26	60	60	36	31	36	31	70	36	26	
Mar.	5.....	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	33	23	
Nov.	12.....	47	33	47	47	37	33	23	28	19	37	37	28	23	28	19	47	28	19	
Dec.	17.....	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	33	23	
1891—Apr.	9.....	70	47	70	70	60	28	23	33	23	60	60	33	23	33	23	70	33	23	
1892—Mar.	16.....	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	33	20	
May	2.....	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	33	23	
June	6.....	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	33	21	

NEW YORK, N. Y., TO INDIANAPOLIS, IND.—Continued.

Boston, 946 miles; Philadelphia, 735 miles; Baltimore, 708 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather		Lead.		Nails.		Hardware.	Agricul- tural im- plements		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carload.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
28	28	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	Sp'l	43	66	66	57	57
38	38	28	28	52	57	28	28	52	52	52	52	28	28	38	38	52	do	38	52	52	47	47
34	34	27	27	47	51	27	27	47	47	47	47	27	27	34	34	47	do	34	47	47	42	42
24	24	19	19	28	28	19	19	28	28	28	28	19	19	24	24	28	do	24	28	28	26	26
24	24	19	19	38	47	19	19	38	38	38	38	19	19	24	24	38	do	24	38	38	28	28
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	do	43	66	66	57	57
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	do	20	25	25	20	20
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	do	43	66	66	57	57
25	25	20	20	66	71	20	20	66	66	66	66	20	20	25	25	66	do	25	66	66	57	57
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	do	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	13	10	10	10	10	15	do	10	15	15	15	25
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	do	16	25	25	25	25
28	28	24	24	43	47	24	24	43	43	43	43	24	24	28	28	43	do	28	43	43	38	38
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	do	43	66	66	57	57
38	38	38	38	66	71	38	38	38	38	66	66	38	38	38	38	66	do	38	66	38	38	38
43	43	43	43	85	95	43	43	43	43	85	85	43	43	43	43	85	do	43	85	43	43	43
43	43	43	43	76	95	43	43	43	43	76	76	43	43	43	43	76	do	43	76	43	43	43
38	38	38	38	57	71	38	38	38	38	57	57	38	38	38	38	57	do	38	57	38	38	38
18	18	18	18	30	43	18	18	18	18	30	30	18	18	18	18	30	do	18	30	18	18	18
27	27	27	27	47	57	27	27	27	27	47	47	27	27	27	27	47	do	27	47	27	27	27
18	18	18	18	32	43	18	18	18	18	32	32	18	18	18	18	32	do	18	32	18	18	18
28	28	28	28	47	57	28	28	28	28	47	47	28	28	28	28	47	do	28	47	28	28	28
33	33	33	33	57	71	33	33	33	33	57	57	33	33	33	33	57	do	33	57	33	33	33
24	24	33	33	57	71	33	33	33	33	57	57	33	33	33	33	57	do	33	57	33	33	33
17	17	24	24	38	47	24	24	24	24	38	38	24	24	24	24	38	do	24	38	24	24	24
14	14	17	17	28	38	17	17	17	17	28	28	17	17	17	17	28	do	17	28	17	17	17
19	19	24	24	47	57	24	24	24	24	47	47	24	24	24	24	47	do	24	47	24	24	24
24	24	33	33	57	71	33	33	33	33	57	57	33	33	33	33	57	do	33	57	33	33	33
23	23	33	33	56	70	33	33	33	33	56	56	33	33	33	33	56	do	33	56	33	33	33
23	23	33	33	56	70	33	33	33	33	56	56	33	33	33	33	56	do	33	56	33	33	33
33	28	33	33	60	70	33	28	47	33	47	33	33	23	33	28	60	47	28	33	28	47	28
36	31	36	26	60	70	36	31	47	36	47	36	36	31	36	31	60	47	31	36	31	47	31
33	28	33	23	60	70	33	28	47	33	47	33	33	23	33	28	60	47	28	33	28	47	28
28	23	28	19	37	47	28	23	33	28	33	28	28	19	28	23	37	33	23	28	23	33	23
33	23	33	23	60	70	33	28	47	33	47	33	33	23	33	28	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28

TABLE 30.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 637 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry Goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1867—Jan.	1.....	153	153	153	153	153	153	153	131	131	131	131	104	104	131	131	153	67	67
Nov.	1.....	166	166	166	166	166	166	166	140	140	140	140	114	114	140	140	166	70	70
1868—Feb.	4.....	166	166	166	166	166	166	166	Special rate.		140	140	70	70	114	114	166	Special rate.	
June	4.....	153	153	153	153	153	153	153	do	do	131	131	67	67	104	104	153	do	do
Aug.	10.....	123	123	123	123	123	123	123	do	do	105	105	67	67	98	98	123	do	do
Sep.	7.....	153	153	153	153	153	153	153	do	do	131	131	67	67	104	104	153	do	do
Oct.	1.....	60	60	60	60	60	60	60	do	do	56	56	45	45	50	50	60	do	do
Dec.	7.....	166	166	166	166	166	166	166	do	do	140	140	70	70	114	114	166	do	do
1869—Feb.	1.....	153	153	153	153	153	153	153	do	do	131	131	67	67	104	104	153	do	do
	17.....	38	38	38	38	38	38	38	do	do	38	38	38	38	38	38	38	do	do
Mar.	15.....	131	131	131	131	131	131	131	do	do	131	131	67	67	104	104	131	do	do
May	12.....	131	131	131	131	131	131	131	do	do	131	131	67	67	104	104	131	do	do
July	1.....	153	153	153	153	153	153	153	do	do	131	131	67	67	104	104	153	do	do
Aug.	11.....	26	26	26	26	26	26	26	do	do	26	26	26	26	26	26	26	do	do
	23.....	32	32	32	32	32	32	32	do	do	32	32	32	32	32	32	32	do	do
	30.....	35	35	35	35	35	35	35	do	do	35	35	35	35	35	35	35	do	do
Sep.	22.....	32	32	32	32	32	32	32	do	do	32	32	32	32	32	32	32	do	do
	24.....	30	30	30	30	30	30	30	do	do	30	30	30	30	30	30	30	do	do
Oct.	4.....	42	42	42	42	42	42	42	do	do	42	42	42	42	42	42	42	do	do
	9.....	61	61	61	61	61	61	61	do	do	61	61	41	41	61	61	61	do	do
	13.....	103	103	103	103	103	103	103	do	do	82	82	52	52	62	62	103	do	do
Nov.	1.....	115	115	115	115	115	115	115	do	do	103	103	67	67	82	82	115	do	do
	29.....	124	124	124	124	124	124	124	do	do	107	107	67	67	82	82	124	do	do
1870—Apr.	14.....	124	124	124	124	124	124	124	do	do	107	107	67	67	82	82	124	32	32
May	7.....	124	124	124	124	124	124	124	do	do	107	107	67	67	82	82	124	32	32
June	18.....	87	87	87	87	87	87	87	do	do	70	70	44	44	56	56	87	32	32
July	13.....	65	65	65	65	65	65	65	do	do	56	56	39	39	48	48	65	32	32
	21.....	60	60	60	60	60	60	60	do	do	55	55	39	39	48	48	60	32	32
	25.....	53	53	53	53	53	53	53	do	do	46	46	35	35	43	43	53	32	32
	28.....	40	40	40	40	40	40	40	do	do	40	40	35	35	40	40	40	32	32
Aug.	12.....	40	40	40	40	40	40	40	do	do	40	40	35	35	40	40	40	Special rate.	
	22.....	77	77	77	77	77	77	77	do	do	70	70	44	44	56	56	77	do	do
Sep.	8.....	103	103	103	103	103	103	103	do	do	91	91	54	54	70	70	103	do	do
Nov.	28.....	127	127	127	127	127	127	127	do	do	103	103	51	51	81	81	127	do	do
Dec.	26.....	144	144	144	144	144	144	144	48	48	120	120	63	63	95	95	144	48	48
1871—Feb.	20.....	120	120	120	120	120	120	120	44	44	103	103	56	56	81	81	120	44	44
Mar.	7.....	77	77	77	77	77	77	77	35	35	70	70	44	44	56	56	77	35	35
	13.....	81	81	81	81	81	81	81	37	37	72	72	44	44	56	56	81	37	37
May	18.....	60	60	60	60	60	60	60	29	29	51	51	35	35	40	40	60	29	29
June	1.....	81	81	81	81	81	81	81	37	37	72	72	44	44	56	56	81	37	37
July	8.....	60	60	60	60	60	60	60	29	29	51	51	51	51	40	40	60	29	29
	26.....	48	48	48	48	48	48	48	26	26	44	44	32	32	37	37	48	26	26
	28.....	40	40	40	40	40	40	40	29	29	40	40	35	35	40	40	40	29	29
Aug.	16.....	32	32	32	32	32	32	32	23	23	32	32	32	32	32	32	32	23	23
	22.....	28	28	28	28	28	28	28	21	21	28	28	28	28	28	28	28	21	21
Sep.	1.....	23	23	23	23	23	23	23	20	20	23	23	23	23	23	23	23	20	20
Nov.	27.....	81	81	81	81	81	81	81	37	37	72	72	44	44	56	56	81	37	37
Dec.	15.....	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100	40	40
1872—Apr.	27.....	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100	40	40
Aug.	1.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
Sep.	1.....	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100	40	40
	2.....	80	80	80	80	80	80	80	36	36	72	72	44	44	56	56	80	36	36
Oct.	14.....	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100	40	40
1873—Apr.	14.....	80	80	80	80	80	80	80	36	36	72	72	48	48	60	60	80	36	36
June	11.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
Aug.	11.....	32	32	32	32	32	32	32	24	24	32	32	24	24	24	24	32	24	24
	12.....	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30
	21.....	32	32	32	32	32	32	32	24	24	32	32	24	24	24	24	32	24	24
Sep.	17.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
1874—Jan.	1.....	80	80	80	80	80	80	80	36	36	72	72	48	48	60	60	80	36	36
Aug.	3.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28

NEW YORK, N. Y., TO COLUMBUS, OHIO.

Boston, 801 miles; Philadelphia, 547 miles; Baltimore, 526 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
67	67	67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
70	70	70	70	140	166	140	140	140	140	140	140	70	70	70	70	140	166	166	140	140	114	114
Special rate.		70	70	140	166	140	140	140	140	140	140	70	70	70	70	140	166	166	140	140	114	114
..do....		67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		67	67	105	123	105	105	105	105	105	105	67	67	67	67	105	123	123	105	105	98	98
..do....		67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		45	45	56	60	56	56	56	56	56	56	45	45	45	45	56	60	60	56	56	50	50
..do....		70	70	140	166	140	140	140	140	140	140	70	70	70	70	140	166	166	140	140	114	114
..do....		67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
..do....		67	67	131	131	131	131	131	131	131	131	67	67	67	67	131	131	131	131	131	104	104
..do....		67	67	131	131	Special rate.		131	131	131	131	67	67	67	67	131	131	131	131	131	104	104
..do....		67	67	131	153	..do....		136	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		26	26	26	26	..do....		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
..do....		32	32	32	32	..do....		32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		32	32	32	32	..do....		32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
..do....		30	30	30	30	..do....		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
..do....		42	42	42	42	..do....		42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
..do....		42	42	61	61	..do....		61	61	61	61	42	42	42	42	61	61	61	61	61	61	61
..do....		52	52	82	103	..do....		82	82	82	82	52	52	52	52	82	103	103	82	82	62	62
..do....		67	67	103	115	..do....		103	103	103	103	67	67	67	67	103	115	115	103	103	82	82
..do....		67	67	107	124	..do....		107	107	107	107	67	67	67	67	107	124	124	107	107	82	82
..do....		67	67	107	124	..do....		107	107	107	107	67	67	67	67	107	124	124	107	107	82	82
..do....		Special rate.		107	124	..do....		107	107	107	107	67	67	67	67	107	124	124	107	107	82	82
..do....		..do....		70	87	..do....		70	70	70	70	44	44	44	44	70	87	87	70	70	56	56
..do....		..do....		56	65	..do....		56	56	56	56	39	39	39	39	56	65	65	56	56	48	48
..do....		..do....		55	60	..do....		55	55	55	55	39	39	39	39	55	60	60	55	55	48	48
..do....		..do....		46	53	..do....		46	46	46	46	35	35	35	35	46	53	53	46	46	43	43
..do....		..do....		40	40	..do....		40	40	40	40	35	35	35	35	40	40	40	40	40	40	40
..do....		..do....		40	40	..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		..do....		70	77	..do....		70	70	70	70	44	44	44	44	70	77	77	70	70	56	56
..do....		..do....		91	103	..do....		91	91	91	91	54	54	54	54	91	103	103	91	91	70	70
..do....		..do....		103	127	..do....		103	103	103	103	51	51	51	51	103	127	127	103	103	81	81
63	63	63	63	120	144	120	120	120	120	120	120	63	63	63	63	120	144	144	120	120	95	95
56	56	56	56	103	120	103	103	103	103	103	103	44	44	56	56	103	120	120	103	103	81	81
44	44	44	44	70	77	70	70	70	70	70	70	35	35	44	44	70	77	77	70	70	56	56
44	44	44	44	72	81	72	72	72	72	72	72	37	37	44	44	72	81	81	72	72	56	56
35	35	35	35	51	60	29	29	51	51	51	51	29	29	35	35	51	60	60	51	51	40	40
44	44	44	44	72	81	37	37	72	72	72	72	37	37	44	44	72	81	81	72	72	56	56
51	51	51	51	51	60	29	29	51	51	51	51	29	29	51	51	51	60	60	51	51	40	40
32	32	32	32	44	48	26	26	44	44	44	44	26	26	32	32	44	48	48	44	44	37	37
35	35	35	35	40	40	29	29	40	40	40	40	29	29	35	35	40	40	40	40	40	40	40
32	32	32	32	32	32	23	23	32	32	32	32	23	23	32	32	32	32	32	32	32	32	32
28	28	28	28	28	28	21	21	28	28	28	28	21	21	28	28	28	28	28	28	28	28	28
23	23	23	23	23	23	20	20	23	23	23	23	20	20	23	23	23	23	23	23	23	23	23
44	44	44	44	72	81	37	37	72	72	72	72	37	37	44	44	72	81	81	72	72	56	56
52	52	52	52	88	100	88	88	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
52	52	40	40	88	100	88	88	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
36	36	28	28	56	60	56	56	56	56	56	56	28	28	36	36	56	60	60	56	56	48	48
52	52	40	40	88	100	88	88	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
44	44	36	36	72	80	72	72	72	72	72	72	36	36	44	44	72	80	80	72	72	56	56
52	52	40	40	88	100	40	40	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	80	80	72	72	60	60
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	60	60	56	56	48	48
24	24	24	24	32	32	24	24	32	32	32	32	24	24	24	24	32	32	32	32	32	24	24
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	40	40	40	40	30	30
24	24	24	24	32	32	24	24	32	32	32	32	24	24	24	24	32	32	32	32	32	24	24
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	60	60	56	56	48	48
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	80	80	72	72	60	60
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	60	60	56	56	48	48

TABLE 30.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 637 miles;
[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds.)																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.					Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.			
1875—Jan.	20.....	80	80	80	80	80	80	80	36	36	72	72	48	48	60	60	80	36	36
	Feb. 23.....	80	80	80	80	80	80	80	24	24	72	72	48	48	60	60	80	24	24
	Mar. 17.....	60	60	60	60	60	60	60	24	24	56	56	36	36	48	48	60	24	24
	Apr. 6.....	48	48	48	48	48	48	48	24	24	44	44	32	32	40	40	48	24	24
	May 18.....	43	43	43	43	43	43	43	22	22	40	40	29	29	36	36	43	22	22
	29.....	27	27	27	27	27	27	27	18	18	27	27	20	20	25	25	27	18	18
	Aug. 12.....	40	40	40	40	40	40	40	16	16	32	32	20	20	25	25	40	16	16
	Nov. 15.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
	Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan.	10.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
	June 2.....	60	60	60	60	60	60	60	20	20	56	56	25	25	48	48	60	20	20
	12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
	July 28.....	15	15	15	15	15	15	15	10	10	15	15	15	15	15	15	15	10	10
	Aug. 7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
	Dec. 18.....	40	40	40	40	40	40	40	20	20	36	36	25	25	32	32	40	20	20
1877—Mar.	12.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
	Oct. 8.....	60	60	60	60	60	60	32	32	32	56	56	32	32	32	32	60	32	32
	22.....	80	80	80	80	80	80	36	36	36	72	72	36	36	36	36	80	36	36
	Dec. 10.....	80	80	80	80	80	80	36	36	36	64	64	36	36	36	36	80	36	36
1878—Feb.	15.....	60	60	60	60	60	60	32	32	32	48	48	32	32	32	32	60	32	32
1881—Aug.	6.....	36	36	36	36	36	36	15	15	15	26	26	15	15	15	15	36	15	15
	Nov. 14.....	48	48	48	48	48	48	22	22	22	40	40	22	22	22	22	48	22	22
1882—Jan.	24.....	39	39	39	39	39	39	18	18	18	32	32	18	18	18	18	39	18	18
	July 1.....	48	48	48	48	48	48	24	24	24	40	40	24	24	24	24	48	20	20
	Nov. 1.....	60	60	60	60	60	60	28	28	28	48	48	28	28	28	28	60	28	28
1883—June	22.....	60	60	60	60	60	60	28	28	28	48	48	28	28	28	28	60	20	20
1885—Jan.	26.....	40	40	40	40	40	40	20	20	20	32	32	20	20	20	20	40	14	14
	June 1.....	32	32	32	32	32	32	14	14	14	24	24	14	14	14	14	32	12	12
	Oct. 5.....	48	48	48	48	48	48	20	20	20	40	40	20	20	20	20	48	16	16
	Nov. 18.....	60	60	60	60	60	60	28	28	28	48	48	28	28	28	28	60	20	20
1886—Mar.	10.....	58	58	58	58	58	58	27	27	27	46	46	27	27	27	27	58	19	19
	Aug. 26.....	58	39	58	58	58	58	27	27	27	46	46	27	27	27	27	58	19	19
1887—Apr.	1.....	58	39	58	58	58	39	23	27	19	50	50	27	23	27	19	58	27	19
	June 13.....	59	39	59	59	51	39	23	27	23	51	51	27	23	27	20	59	27	20
1888—Jan.	9.....	59	39	59	59	51	39	26	30	21	51	51	30	26	30	21	59	30	21
	Mar. 5.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	27	20
	Nov. 12.....	39	27	39	39	31	27	20	23	16	31	31	23	20	23	16	39	23	16
	Dec. 17.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	27	20
1891—Apr.	9.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	27	20
1892—Mar.	16.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	27	16
	May 2.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	27	20
	June 6.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	27	18

NEW YORK, N. Y., TO COLUMBUS, OHIO—Continued.

Boston, 801 miles; Philadelphia, 547 miles; Baltimore, 526 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents 100 pounds.)																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather		Lead.		Nails.		Hardware.	Agri- cultural im- plements		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	Sp'l rate.	48	72	72	60	60
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	.do.	48	72	72	60	60
24	24	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
32	32	24	24	44	48	24	24	44	44	44	44	24	24	32	32	44	.do.	32	44	44	40	40
29	29	23	23	40	43	23	23	40	40	40	40	23	23	29	29	40	.do.	29	40	40	36	36
28	28	18	18	27	27	18	18	27	27	27	27	18	18	20	20	27	.do.	20	27	27	25	25
20	20	16	16	32	40	16	16	32	32	32	32	16	16	20	20	32	.do.	20	32	32	25	25
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do.	20	25	25	20	20
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
25	25	20	20	56	60	20	20	56	56	56	56	20	20	25	25	56	.do.	25	56	56	48	48
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do.	10	15	15	15	15
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
25	25	20	20	36	40	20	20	36	36	36	36	20	20	25	25	36	.do.	25	36	36	32	32
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
32	32	32	32	56	60	32	32	32	32	56	56	32	32	32	32	56	.do.	32	56	32	32	32
36	36	36	36	72	80	36	36	36	36	72	72	36	36	36	36	72	.do.	36	72	36	36	36
36	36	36	36	64	80	36	36	36	36	64	64	36	36	36	36	64	.do.	36	64	36	36	36
32	32	32	32	48	60	32	32	32	32	48	48	32	32	32	32	48	.do.	32	48	32	32	32
15	15	15	15	26	36	15	15	15	15	26	26	15	15	15	15	26	.do.	15	26	15	15	15
22	22	22	22	40	48	22	22	22	22	40	40	22	22	22	22	40	.do.	22	40	22	22	22
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	.do.	18	32	18	18	18
20	20	24	24	40	48	24	24	24	24	40	40	24	24	24	24	40	.do.	24	40	24	24	24
28	28	28	28	48	60	28	28	28	28	48	48	28	28	28	28	48	.do.	28	48	28	28	28
20	20	28	28	48	60	28	28	28	28	48	48	28	28	28	28	48	.do.	28	48	28	28	28
14	14	20	20	32	40	20	20	20	20	32	32	20	20	20	20	32	.do.	20	32	20	20	20
12	12	14	14	24	32	14	14	14	14	24	24	14	14	14	14	24	.do.	14	24	14	14	14
16	16	20	20	40	48	20	20	20	20	40	40	20	20	20	20	40	.do.	20	40	20	20	20
20	20	28	28	48	60	28	28	28	28	48	48	28	28	28	28	48	.do.	28	48	28	28	28
19	19	27	27	46	58	27	27	27	27	46	46	27	27	27	27	46	.do.	27	46	27	27	27
19	19	27	27	46	58	27	27	27	27	46	46	27	27	27	27	46	.do.	27	46	27	27	27
27	23	27	27	50	58	27	23	39	27	39	27	27	19	27	23	50	39	23	27	23	39	23
27	23	27	27	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
30	26	30	21	51	59	30	26	39	30	39	30	30	21	30	26	51	39	26	30	26	39	26
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
23	20	23	16	31	39	23	20	27	23	27	23	23	16	23	20	31	27	20	23	20	27	20
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23

TABLE 31.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 639 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.	Less than carloads.	Carloads.						
1867—Jan.	1.....	134	134	134	134	134	134	134	134	114	114	114	114	92	92	114	114	134	58	58
May	15.....	134	134	134	134	134	134	134	134	114	114	114	114	91	91	114	114	134	59	59
Nov.	5.....	144	144	144	144	144	144	144	144	121	121	121	121	99	99	121	121	144	64	64
1868—Feb.	4.....	144	144	144	144	144	144	144	144	Special rate.		121	121	64	64	99	99	144	Special rate.	
June	4.....	134	134	134	134	134	134	134	134	..do....	..do....	114	114	59	59	91	91	134	..do....	..do....
Aug.	10.....	106	106	106	106	106	106	106	106	..do....	..do....	91	91	59	59	86	86	106	..do....	..do....
Sept.	7.....	134	134	134	134	134	134	134	134	..do....	..do....	114	114	59	59	91	91	134	..do....	..do....
Dec.	7.....	150	150	150	150	150	150	150	150	..do....	..do....	121	121	60	60	99	99	150	..do....	..do....
1869—Feb.	1.....	134	134	134	134	134	134	134	134	..do....	..do....	114	114	59	59	59	59	134	..do....	..do....
Feb.	17.....	57	57	57	57	57	57	57	57	..do....	..do....	57	57	57	57	57	57	57	..do....	..do....
Mar.	15.....	114	114	114	114	114	114	114	114	..do....	..do....	114	114	59	59	91	91	114	..do....	..do....
Apr.	12.....	114	114	114	114	114	114	114	114	..do....	..do....	114	114	59	59	91	91	114	..do....	..do....
July	1.....	134	134	134	134	134	134	134	134	..do....	..do....	114	114	59	59	91	91	134	..do....	..do....
Aug.	23.....	28	28	28	28	28	28	28	28	..do....	..do....	28	28	28	28	28	28	28	..do....	..do....
Oct.	9.....	53	53	53	53	53	53	53	53	..do....	..do....	53	53	53	53	53	53	53	..do....	..do....
Oct.	13.....	90	90	90	90	90	90	90	90	..do....	..do....	72	72	47	47	54	54	90	..do....	..do....
Nov.	1.....	100	100	100	100	100	100	100	100	..do....	..do....	90	90	58	58	72	72	100	..do....	..do....
Nov.	29.....	108	108	108	108	108	108	108	108	..do....	..do....	93	93	58	58	72	72	108	..do....	..do....
1870—Apr.	14.....	108	108	108	108	108	108	108	108	..do....	..do....	93	93	58	58	72	72	108	30	30
May	4.....	113	113	113	113	113	113	113	113	..do....	..do....	98	98	58	58	79	79	113	30	30
May	7.....	113	113	113	113	113	113	113	113	..do....	..do....	98	98	58	58	79	79	113	30	30
June	18.....	84	84	84	84	84	84	84	84	..do....	..do....	68	68	43	43	54	54	84	30	30
July	25.....	46	46	46	46	46	46	46	46	..do....	..do....	42	42	31	31	39	39	46	30	30
July	28.....	35	35	35	35	35	35	35	35	..do....	..do....	35	35	31	31	35	35	35	30	30
Aug.	12.....	36	36	36	36	36	36	36	36	..do....	..do....	36	36	36	36	36	36	36	Special rate.	
Aug.	22.....	72	72	72	72	72	72	72	72	..do....	..do....	68	68	43	43	54	54	72	..do....	..do....
Sept.	8.....	90	90	90	90	90	90	90	90	..do....	..do....	79	79	47	47	54	54	90	..do....	..do....
Nov.	28.....	112	112	112	112	112	112	112	112	..do....	..do....	91	91	45	45	71	71	112	..do....	..do....
Dec.	26.....	127	127	127	127	127	127	127	127	42	42	106	106	56	56	84	84	127	42	42
1871—Feb.	15.....	88	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	35	35
Feb.	20.....	106	106	106	106	106	106	106	106	39	39	91	91	50	50	70	70	106	39	39
Mar.	13.....	71	71	71	71	71	71	71	71	32	32	64	64	39	39	50	50	71	32	32
May	18.....	53	53	53	53	53	53	53	53	26	26	45	45	26	26	36	36	53	26	26
June	1.....	71	71	71	71	71	71	71	71	32	32	64	64	39	39	50	50	71	32	32
July	8.....	53	53	53	53	53	53	53	53	26	26	45	45	31	31	36	36	53	26	26
July	26.....	42	42	42	42	42	42	42	42	23	23	39	39	28	28	32	32	42	23	23
July	29.....	52	52	52	52	52	52	52	52	30	30	44	44	35	35	39	39	52	30	30
Aug.	16.....	31	31	31	31	31	31	31	31	21	21	31	31	21	21	31	31	31	21	21
Aug.	22.....	25	25	25	25	25	25	25	25	19	19	25	25	25	25	25	25	25	19	19
Sept.	2.....	21	21	21	21	21	21	21	21	17	17	21	21	21	21	21	21	21	17	17
Sept.	5.....	52	52	52	52	52	52	52	52	30	30	44	44	35	35	39	39	52	30	30
Nov.	27.....	71	71	71	71	71	71	71	71	32	32	64	64	39	39	50	50	71	32	32
Dec.	15.....	88	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	35	35
1872—Apr.	27.....	88	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	35	35
Aug.	1.....	53	53	53	53	53	53	53	53	25	25	49	49	39	39	42	42	53	25	25
Sept.	1.....	88	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	35	35
Sept.	2.....	70	70	70	70	70	70	70	70	32	32	63	63	39	39	49	49	70	32	32
Oct.	14.....	88	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	35	35
1873—Apr.	15.....	70	70	70	70	70	70	70	70	32	32	63	63	42	42	53	53	70	32	32
July	22.....	53	53	53	53	53	53	53	53	25	25	49	49	32	32	42	42	53	25	25
Aug.	12.....	50	50	50	50	50	50	50	50	30	30	40	40	30	30	30	30	50	30	30
Aug.	13.....	29	29	29	29	29	29	29	29	22	22	29	29	22	22	22	22	29	22	22
Sept.	17.....	53	53	53	53	53	53	53	53	25	25	49	49	32	32	42	42	53	25	25
1874—Jan.	1.....	70	70	70	70	70	70	70	70	32	32	63	63	42	42	53	53	70	32	32
Aug.	3.....	53	53	53	53	53	53	53	53	25	25	49	49	32	32	42	42	53	25	25
1875—Jan.	20.....	70	70	70	70	70	70	70	70	32	32	63	63	42	42	53	53	70	32	32
Mar.	17.....	53	53	53	53	53	53	53	53	21	21	49	49	32	32	42	42	53	21	21
Aug.	12.....	40	40	40	40	40	40	40	40	15	15	30	30	20	20	25	25	40	15	15
Nov.	15.....	53	53	53	53	53	53	53	53	25	25	49	49	32	32	42	42	53	25	25
Dec.	22.....	30	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15

NEW YORK, N. Y., TO DETROIT, MICH.

Boston, 710 miles; Philadelphia, 648 miles; Baltimore, 628 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
58	58	58	58	114	134	114	114	114	114	114	114	58	58	58	58	114	134	134	114	114	92	92	
59	59	59	59	114	134	114	114	114	114	114	114	59	59	59	59	114	134	134	114	114	91	91	
64	64	64	64	121	144	121	121	121	121	121	121	64	64	64	64	121	144	144	121	121	99	99	
Special rate.		64	64	121	144	121	121	121	121	121	121	64	64	64	64	121	144	144	121	121	99	99	
..do....		59	59	114	134	114	114	114	114	114	114	59	59	59	59	114	134	134	114	114	91	91	
..do....		59	59	91	106	91	91	91	91	91	91	59	59	59	59	91	106	106	91	91	86	86	
..do....		59	59	114	134	114	114	114	114	91	91	59	59	59	59	114	134	134	114	114	91	91	
..do....		60	60	121	150	121	121	121	121	99	99	60	60	60	60	121	150	150	121	121	99	99	
..do....		59	59	114	134	114	114	114	114	91	91	59	59	59	59	114	134	134	114	114	59	59	
..do....		57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
..do....		59	59	114	114	114	114	114	114	91	91	59	59	59	59	114	114	114	114	114	91	91	
..do....		59	59	114	114	Special rate.	114	114	114	91	91	59	59	59	59	114	114	114	114	114	91	91	
..do....		59	59	114	134	..do....	114	114	114	114	114	59	59	59	59	114	134	134	114	114	91	91	
..do....		28	28	28	28	..do....	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	
..do....		37	37	53	53	..do....	53	53	53	53	53	37	37	37	37	53	53	53	53	53	53	53	
..do....		47	47	72	90	..do....	72	72	72	72	72	47	47	47	47	72	90	90	72	72	54	54	
..do....		58	58	90	100	..do....	90	90	90	90	90	58	58	58	58	90	100	100	90	90	72	72	
..do....		58	58	93	108	..do....	93	93	93	93	93	58	58	58	58	93	108	108	93	93	72	72	
..do....		58	58	93	108	..do....	93	93	93	93	93	58	58	58	58	93	108	108	93	93	72	72	
..do....		58	58	98	113	..do....	98	98	98	98	98	58	58	58	58	98	113	113	98	98	79	79	
..do....		Special rate.	98	113	..do....	98	98	98	98	98	98	58	58	58	58	98	113	113	98	98	79	79	
..do....		..do....	68	84	..do....	68	68	68	68	43	43	43	43	43	43	68	84	84	68	68	54	54	
..do....		..do....	42	46	..do....	42	42	42	42	31	31	31	31	31	31	42	46	46	42	42	39	39	
..do....		..do....	35	35	..do....	35	35	35	35	31	31	31	31	31	31	35	35	35	35	35	35	35	
..do....		..do....	36	36	..do....	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
..do....		..do....	68	72	..do....	68	68	68	68	43	43	43	43	43	43	68	72	72	68	68	54	54	
..do....		..do....	79	90	..do....	79	79	79	79	47	47	47	47	47	47	79	90	90	79	79	61	61	
..do....		..do....	91	112	..do....	91	91	91	91	45	45	45	45	45	45	91	112	112	91	91	71	71	
56	56	56	56	106	127	106	106	106	106	106	106	56	56	56	56	106	127	127	106	106	84	84	
46	46	46	46	78	88	35	35	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60	
50	50	50	50	91	106	39	39	91	91	91	91	39	39	50	50	91	106	106	91	91	71	71	
39	39	39	39	64	71	32	32	64	64	64	64	32	32	39	39	64	71	71	64	64	50	50	
31	31	31	31	45	53	26	26	45	45	45	45	26	26	31	31	45	53	53	45	45	36	36	
39	39	39	39	64	71	32	32	64	64	64	64	32	32	39	39	64	71	71	64	64	50	50	
31	31	31	31	45	53	26	26	45	45	45	45	26	26	31	31	45	53	53	45	45	36	36	
28	28	28	28	39	42	23	23	39	39	39	39	23	23	28	28	39	42	42	39	39	32	32	
35	35	35	35	44	52	30	30	44	44	44	44	30	30	35	35	44	52	52	44	44	39	39	
31	31	31	31	31	31	21	21	31	31	31	31	21	21	31	31	31	31	31	31	31	31	31	
25	25	25	25	25	25	19	19	25	25	25	25	19	19	25	25	25	25	25	25	25	25	25	
21	21	21	21	21	21	17	17	21	21	21	21	17	17	21	21	21	21	21	21	21	21	21	
35	35	35	35	44	52	30	30	44	44	44	44	30	30	35	35	44	52	52	44	44	39	39	
39	39	39	39	64	71	32	32	64	64	64	64	32	32	39	39	64	71	71	64	64	50	50	
46	46	46	46	78	88	78	78	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60	
46	46	35	35	78	88	78	78	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60	
32	32	25	25	49	53	49	49	49	49	49	49	25	25	32	32	49	53	53	49	49	42	42	
46	46	46	46	78	88	78	78	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60	
39	39	32	32	63	70	63	63	63	63	63	63	32	32	39	39	63	70	70	63	63	49	49	
46	46	35	35	78	88	35	35	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60	
42	42	32	32	63	70	32	32	63	63	63	63	32	32	42	42	63	Spe'l rate.	42	63	63	53	53	
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	..do.	32	49	49	42	42	
30	30	30	30	40	50	30	30	40	40	40	40	30	30	30	30	40	..do.	30	40	40	30	30	
22	22	22	22	29	29	22	22	29	29	29	29	22	22	22	22	29	..do.	22	29	29	22	22	
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	..do.	32	49	49	42	42	
42	42	32	32	63	70	32	32	63	63	63	63	32	32	42	42	63	..do.	42	63	63	53	53	
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	..do.	32	49	49	42	42	
42	42	32	32	63	70	32	32	63	63	63	63	32	32	42	42	63	..do.	42	63	63	53	53	
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	..do.	32	49	49	42	42	
20	20	15	15	30	40	15	15	30	30	30	30	15	15	20	20	30	..do.	20	30	30	25	25	
32	32	25	25	49	53	25	25	49	49														

TABLE 31.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 639 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds.)																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee,		Soaps.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
												Less than carloads.	Carloads.							
1876—Jan.	10.....	53	53	53	53	53	53	53	25	25	49	49	32	32	42	42	53	25	25	
June	12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16	
Dec.	18.....	40	40	40	40	40	40	40	20	20	35	35	25	25	30	30	40	20	20	
1877—Mar.	12.....	53	53	53	53	53	53	53	25	25	49	49	32	32	42	42	53	25	25	
1877—Oct.	8.....	53	53	53	53	53	53	28	28	28	49	49	28	28	28	28	53	28	28	
Oct.	22.....	70	70	70	70	70	70	32	32	32	63	63	32	32	32	32	70	32	32	
Dec.	10.....	70	70	70	70	70	70	32	32	32	56	56	32	32	32	32	70	32	32	
1878—Feb.	14.....	53	53	53	53	53	53	28	28	28	42	42	28	28	28	28	53	28	28	
1881—Aug.	6.....	32	32	32	32	32	32	14	14	14	22	22	14	14	14	14	32	14	14	
Nov.	14.....	42	42	42	42	42	42	20	20	20	35	35	20	20	20	20	42	20	20	
1882—July	1.....	42	42	42	42	42	42	21	21	21	35	35	21	21	21	21	42	18	18	
Nov.	1.....	53	53	53	53	53	53	25	25	25	42	42	25	25	25	25	53	25	25	
1883—June	22.....	53	53	53	53	53	53	25	25	25	42	42	25	25	25	25	53	18	18	
1885—Jan.	26.....	35	35	35	35	35	35	18	18	18	28	28	18	18	18	18	35	13	13	
June	1.....	28	28	28	28	28	28	13	13	13	21	21	13	13	13	13	28	11	11	
Oct.	5.....	42	28	42	42	42	42	18	18	18	35	35	18	18	18	18	42	14	14	
Nov.	18.....	53	32	53	53	53	53	25	25	25	42	42	25	25	25	25	53	18	18	
1886—Mar.	10.....	59	35	59	59	59	59	37	27	27	47	47	27	27	27	27	59	20	20	
Aug.	26.....	59	39	59	59	59	59	27	27	27	47	47	27	27	27	27	59	20	20	
1887—Apr.	1.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	27	20	
1888—Jan.	9.....	59	39	59	59	51	39	26	30	21	51	51	30	26	30	21	59	30	21	
Mar.	5.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	27	20	
Aug.	15.....	59	39	59	59	51	59	23	27	20	51	51	27	23	27	20	59	27	20	
Nov.	12.....	39	27	39	39	31	27	20	23	16	31	31	23	20	23	16	39	23	16	
Dec.	17.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	27	20	
1889—Feb.	18.....	59	39	59	59	51	59	23	27	20	51	51	27	23	27	20	59	27	20	
1891—Apr.	9.....	59	39	59	59	51	23	20	27	20	51	51	27	20	27	20	59	27	20	
1892—Mar.	16.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	27	16	
May	2.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	27	20	
June	6.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	27	18	

NEW YORK, N. Y., TO DETROIT, MICH.—Continued.

Boston, 710 miles; Philadelphia, 648 miles; Baltimore, 628 miles.

than carload or carload quantities they apply on shipments regardless of quantities.]

Commodities (rate in cents per 100 pounds).																						
Molas- ses.		Rice.				Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.			Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs-	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	Spe'l rate.	32	49	49	42	42
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
25	25	20	20	35	40	20	20	35	35	35	35	20	20	25	25	35	.do.	25	35	35	30	30
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	.do.	32	49	49	42	42
28	28	28	28	49	53	28	28	28	28	49	49	28	28	28	28	49	.do.	28	49	28	28	28
32	32	32	32	63	70	32	32	32	32	63	63	32	32	32	32	63	.do.	32	63	32	32	32
32	32	32	32	56	70	32	32	32	32	56	56	32	32	32	32	56	.do.	32	56	32	32	32
28	28	28	28	42	53	28	28	28	28	42	42	28	28	28	28	42	.do.	28	42	28	28	28
14	14	14	14	22	32	14	14	14	14	22	22	14	14	14	14	22	.do.	14	22	14	14	14
20	20	20	20	35	42	20	20	20	20	35	35	20	20	20	20	35	.do.	20	35	20	20	20
18	18	21	21	35	42	21	21	21	21	35	35	21	21	21	21	35	.do.	21	35	21	21	21
25	25	25	20	42	53	25	25	25	25	42	42	25	25	25	25	42	.do.	25	42	25	25	25
18	18	25	25	42	53	25	25	25	25	42	42	25	25	25	25	42	.do.	25	42	25	25	25
13	13	18	18	28	35	18	18	18	18	28	28	18	18	18	18	28	.do.	18	28	18	18	18
11	11	13	13	21	28	13	13	13	13	21	21	13	13	13	13	21	.do.	13	21	13	13	13
14	14	18	18	35	42	18	18	18	18	35	35	18	18	18	18	35	.do.	18	35	18	18	18
18	18	25	25	42	53	25	25	25	25	42	42	25	25	25	25	42	.do.	25	42	25	25	25
20	20	27	27	47	59	27	27	27	27	47	47	27	27	27	27	47	.do.	27	47	27	27	27
20	20	27	27	47	59	27	27	27	27	47	47	27	27	27	27	47	.do.	27	47	27	27	27
27	23	27	27	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
30	26	30	21	51	59	30	26	39	30	39	30	30	21	30	26	51	39	26	30	26	39	26
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
23	20	23	16	31	39	23	20	27	23	27	23	23	16	23	20	31	27	20	23	20	27	20
27	23	27	20	51	59	27	23	38	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	29	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23

TABLE 32.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 592 miles;

[NOTE.—Where the rates shown are not specially described as applying to less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.		Starch.		Tea.	Sugar.				
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile or fancy.		Common.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	
											Less than carloads.	Carloads.								
1867—Jan.	1.....	126	126	126	126	126	126	126	126	107	107	107	107	86	86	107	107	126	54	54
Nov.	5.....	136	136	136	136	136	136	136	136	114	114	114	114	93	93	114	114	136	57	57
1868—Feb.	4.....	136	136	136	136	136	136	136	136	Special rate.		114	114	57	57	93	93	136	Special rate.	
June	4.....	126	126	126	126	126	126	126	126	do.	do.	107	107	54	54	86	86	126	do.	do.
Aug.	10.....	100	100	100	100	100	100	100	100	do.	do.	86	86	54	54	80	80	100	do.	do.
Sept.	7.....	126	126	126	126	126	126	126	126	do.	do.	107	107	54	54	86	86	126	do.	do.
Oct.	1.....	60	60	60	60	60	60	60	60	do.	do.	56	56	45	45	50	50	60	do.	do.
Dec.	7.....	136	136	136	136	136	136	136	136	do.	do.	114	114	57	57	93	93	136	do.	do.
1869—Feb.	1.....	126	126	126	126	126	126	126	126	do.	do.	107	107	54	54	86	86	126	do.	do.
	17.....	35	35	35	35	35	35	35	35	do.	do.	35	35	35	35	35	35	35	do.	do.
Mch.	15.....	107	107	107	107	107	107	107	107	do.	do.	107	107	54	54	86	86	107	do.	do.
May	12.....	107	107	107	107	107	107	107	107	do.	do.	107	107	54	54	86	86	107	do.	do.
July	1.....	126	126	126	126	126	126	126	126	do.	do.	107	107	54	54	86	86	126	do.	do.
Aug.	11.....	20	20	20	20	20	20	20	20	do.	do.	20	20	20	20	20	20	20	do.	do.
	23.....	25	25	25	25	25	25	25	25	do.	do.	25	25	25	25	25	25	25	do.	do.
	30.....	29	29	29	29	29	29	29	29	do.	do.	29	29	29	29	29	29	29	do.	do.
Sept.	22.....	25	25	25	25	25	25	25	25	do.	do.	25	25	25	25	25	25	25	do.	do.
	24.....	22	22	22	22	22	22	22	22	do.	do.	22	22	22	22	22	22	22	do.	do.
Oct.	4.....	34	34	34	34	34	34	34	34	do.	do.	34	34	34	34	34	34	34	do.	do.
	9.....	50	50	50	50	50	50	50	50	do.	do.	50	50	34	34	34	34	50	do.	do.
	13.....	84	84	84	84	84	84	84	84	do.	do.	67	67	44	44	51	51	84	do.	do.
Nov.	1.....	94	94	94	94	94	94	94	94	do.	do.	84	84	54	54	67	67	94	do.	do.
	29.....	101	101	101	101	101	101	101	101	do.	do.	87	87	54	54	67	67	101	do.	do.
1870—Mch.	7.....	101	101	101	101	101	101	101	101	do.	do.	87	87	54	54	67	67	101	do.	do.
Apr.	19.....	101	101	101	101	101	101	101	101	do.	do.	87	87	54	54	67	67	101	31	31
May	4.....	112	112	112	112	112	112	112	112	do.	do.	96	96	62	62	76	76	112	Special rate.	
June	18.....	71	71	71	71	71	71	71	71	do.	do.	57	57	36	36	46	46	71	do.	do.
July	25.....	43	43	43	43	43	43	43	43	do.	do.	38	38	28	28	35	35	43	do.	do.
	28.....	32	32	32	32	32	32	32	32	do.	do.	32	32	28	28	32	32	32	do.	do.
Aug.	12.....	32	32	32	32	32	32	32	32	do.	do.	32	32	32	32	32	32	32	do.	do.
	22.....	63	63	63	63	63	63	63	63	do.	do.	57	57	36	36	46	46	63	do.	do.
	24.....	73	73	73	73	73	73	73	73	do.	do.	65	65	42	42	52	52	73	do.	do.
1870—Sept.	8.....	84	84	84	84	84	84	84	84	do.	do.	74	74	44	44	57	57	84	do.	do.
Nov.	28.....	104	104	104	104	104	104	104	104	do.	do.	84	84	42	42	66	66	104	do.	do.
Dec.	26.....	118	118	118	118	118	118	118	118	39	39	98	98	52	52	78	78	118	39	39
1871—Feb.	20.....	98	98	98	98	98	98	98	98	36	36	84	84	46	46	66	66	98	36	36
Mch.	7.....	63	63	63	63	63	63	63	63	28	28	57	57	36	36	46	46	63	28	28
	13.....	73	73	73	73	73	73	73	73	33	33	65	65	40	40	50	50	73	33	33
May	18.....	49	49	49	49	49	49	49	49	24	24	42	42	29	29	33	33	49	24	24
June	1.....	73	73	73	73	73	73	73	73	33	33	65	65	40	40	50	50	73	33	33
July	8.....	54	54	54	54	54	54	54	54	29	29	47	47	34	34	38	38	54	29	29
	26.....	39	39	39	39	39	39	39	39	21	21	36	36	26	26	30	30	39	21	21
	28.....	40	40	40	40	40	40	40	40	30	30	40	40	35	35	39	39	40	30	30
	29.....	40	40	40	40	40	40	40	40	29	29	40	40	34	34	38	38	40	29	29
Aug.	16.....	29	29	29	29	29	29	29	29	20	20	29	29	29	29	29	29	29	20	20
	22.....	23	23	23	23	23	23	23	23	17	17	23	23	23	23	23	23	23	17	17
Sept.	5.....	40	40	40	40	40	40	40	40	30	30	40	40	35	35	39	39	40	30	30
	6.....	23	23	23	23	23	23	23	23	20	20	23	23	23	23	23	23	23	20	20
	11.....	20	20	20	20	20	20	20	20	16	16	20	20	20	20	20	20	20	16	16
Nov.	27.....	73	73	73	73	73	73	73	73	33	33	65	65	40	40	50	50	73	33	33
Dec.	15.....	82	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	33	33
1872—Aug.	1.....	49	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
Sept.	1.....	82	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	33	33
	2.....	65	65	65	65	65	65	65	65	30	30	59	59	36	36	46	46	65	30	30
Oct.	14.....	82	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	33	33
1873—Apr.	14.....	65	65	65	65	65	65	65	65	30	30	59	59	39	39	49	49	65	30	30
June	1.....	49	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
	11.....	26	26	26	26	26	26	26	26	20	20	26	26	20	20	20	20	26	20	20
	12.....	40	40	40	40	40	40	40	40	23	23	40	40	30	30	30	30	40	23	23

NEW YORK, N. Y., TO CLEVELAND, OHIO.

Boston, 663 miles; Philadelphia, 541 miles; Baltimore, 521 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
54	54	54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
57	57	57	57	114	136	114	114	114	114	114	114	57	57	57	57	114	136	136	114	114	93	93	
Special rate.		57	57	114	136	114	114	114	114	114	114	57	57	57	57	114	136	136	114	114	93	93	
..do....		54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		54	54	86	100	86	86	86	86	86	86	54	54	54	54	86	100	100	86	86	80	80	
..do....		54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		45	45	56	60	56	56	56	56	56	56	45	45	45	45	56	60	60	56	56	50	50	
..do....		57	57	114	113	114	114	114	114	114	114	57	57	57	57	114	136	136	114	114	93	93	
..do....		54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
..do....		54	54	107	107	107	107	107	107	107	107	54	54	54	54	107	107	107	107	107	86	86	
..do....		54	54	107	107	Special rate.	107	107	107	107	107	54	54	54	54	107	107	107	107	107	86	86	
..do....		54	54	107	126	..do....	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		20	20	20	20	..do....	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
..do....		25	25	25	25	..do....	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
..do....		29	29	29	29	..do....	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
..do....		25	25	25	25	..do....	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
..do....		22	22	22	22	..do....	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
..do....		34	34	34	34	..do....	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	
..do....		34	34	50	50	..do....	50	50	50	50	50	34	34	34	34	50	50	50	50	50	50	50	
..do....		44	44	67	84	..do....	67	67	67	67	67	44	44	44	44	67	84	84	67	67	51	51	
..do....		54	54	84	94	..do....	84	84	84	84	84	54	54	54	54	84	94	94	84	84	67	67	
..do....		54	54	87	101	..do....	87	87	87	87	87	54	54	54	54	87	101	101	87	87	67	67	
..do....		Special rate.		87	101	..do....	87	87	87	87	87	54	54	54	54	87	101	101	87	87	67	67	
..do....		..do....		87	101	..do....	87	87	87	87	87	54	54	54	54	87	101	101	87	87	67	67	
..do....		62	62	96	112	..do....	96	96	96	96	96	62	62	62	62	96	112	112	96	96	76	76	
..do....		Special rate.		57	71	..do....	57	57	57	57	57	36	36	36	36	57	71	71	57	57	46	46	
..do....		..do....		38	43	..do....	38	38	38	38	38	28	28	28	28	38	43	43	38	38	35	35	
..do....		..do....		32	32	..do....	32	32	32	32	32	28	28	28	28	32	32	32	32	32	32	32	
..do....		..do....		32	32	..do....	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
..do....		..do....		57	63	..do....	57	57	57	57	57	36	36	36	36	57	63	63	57	57	46	46	
..do....		..do....		65	73	..do....	65	65	65	65	65	42	42	42	42	65	73	73	65	65	52	52	
..do....		..do....		74	84	..do....	74	74	74	74	74	44	44	44	44	74	84	84	74	74	57	57	
..do....		..do....		84	104	..do....	84	84	84	84	84	42	42	42	42	84	104	104	84	84	66	66	
52	52	52	52	98	118	98	98	98	98	98	98	52	52	52	52	98	118	118	98	98	78	78	
46	46	46	46	84	98	36	36	84	84	84	84	36	36	46	46	84	98	98	84	84	66	66	
36	36	36	36	57	63	28	28	57	57	57	57	28	28	36	36	57	63	63	57	57	46	46	
40	40	40	40	65	73	33	33	65	65	65	65	33	33	40	40	65	73	73	65	65	50	50	
29	29	29	29	42	49	24	24	42	42	42	42	24	24	29	29	42	49	49	42	42	33	33	
40	40	40	40	65	73	33	33	65	65	65	65	33	33	40	40	65	73	73	65	65	50	50	
34	34	34	34	47	54	29	29	47	47	47	47	29	29	34	34	47	54	54	47	47	38	38	
26	26	26	26	36	39	21	21	36	36	36	36	21	21	26	26	36	39	39	36	36	30	30	
35	35	35	35	40	40	30	30	40	40	40	40	30	30	35	35	40	40	40	40	40	39	39	
34	34	34	34	40	40	29	29	40	40	40	40	29	29	34	34	40	40	40	40	40	38	38	
29	29	29	29	29	29	20	20	29	29	29	29	20	20	29	29	29	29	29	29	29	29	29	
23	23	23	23	23	23	17	17	23	23	23	23	17	17	23	23	23	23	23	23	23	23	23	
35	35	35	35	40	40	30	30	40	40	40	40	30	30	35	35	40	40	40	40	40	39	39	
23	23	23	23	23	23	20	20	23	23	23	23	20	20	23	23	23	23	23	23	23	23	23	
20	20	20	20	20	20	16	16	20	20	20	20	16	16	20	20	20	20	20	20	20	20	20	
40	40	40	40	65	73	33	33	65	65	65	65	33	33	40	40	65	73	73	65	65	50	50	
43	43	33	33	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
30	30	23	23	46	49	46	46	46	46	46	46	23	23	30	30	46	49	49	46	46	39	39	
43	43	33	33	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
36	36	30	30	59	65	59	59	59	59	59	59	30	30	36	36	59	65	65	59	59	46	46	
43	43	33	33	72	82	33	33	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
39	39	30	30	59	65	30	30	59	59	59	59	30	30	39	39	59	Sp'l rate	59	59	49	49	49	
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	..do	46	46	49	49	49	
20	20	20	20	26	26	20	20	26	26	26	26	20	20	20	20	26	..do	26	26	20	20	20	
30	30	23	23	40	40	23	23	40	40	40	40	23	23	30	30	40	..do	40	40	30	30	30	

TABLE 32.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 592 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.					Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.			
1873—June	13.....	29	29	29	29	29	29	29	22	22	29	29	22	22	22	22	29	22	22
	16.....	35	35	35	35	35	35	35	23	23	35	35	26	26	26	26	35	23	23
Sept.	17.....	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
1874—Jan.	1.....	65	65	65	65	65	65	65	30	30	59	59	39	39	49	49	65	30	30
Aug.	3.....	49	49	49	49	49	49	49	23	23	35	35	30	30	26	26	49	23	23
1875—Jan.	20.....	65	65	65	65	65	65	65	30	30	59	59	39	39	49	49	65	30	30
Mar.	17.....	49	49	49	49	49	49	49	20	20	35	35	30	30	26	26	49	20	20
May	26.....	35	35	35	35	35	35	35	18	18	32	32	23	23	30	30	35	18	18
	29.....	25	25	25	25	25	25	25	15	15	25	25	18	18	20	20	25	15	15
Aug.	12.....	40	40	40	40	40	40	40	15	15	30	30	20	20	25	25	40	15	15
Nov.	15.....	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
Dec.	22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan.	10.....	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
June	12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
July	28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10
1877—Mar.	12.....	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
Oct.	8.....	49	49	49	49	49	49	26	26	26	46	46	26	26	26	26	49	26	26
	22.....	65	65	65	65	65	65	30	30	30	59	59	30	30	30	30	65	30	30
Dec.	10.....	65	65	65	65	65	65	30	30	30	52	52	30	30	30	30	65	30	30
1878—Feb.	14.....	49	49	49	49	49	49	26	26	26	39	39	26	26	26	26	49	26	26
1881—Aug.	6.....	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	13
Nov.	14.....	39	39	39	39	39	39	19	19	19	33	33	19	19	19	19	39	19	19
1882—Jan.	24.....	39	39	39	39	29	39	18	18	18	32	32	18	18	18	18	39	18	18
July	1.....	39	39	39	39	39	39	20	20	20	33	33	20	20	20	20	39	17	17
Nov.	1.....	49	49	49	49	49	49	23	23	23	39	39	23	23	23	23	49	23	23
1883—June	22.....	49	49	49	49	49	49	23	23	23	39	39	23	23	23	23	49	17	17
Jan.	26.....	33	33	33	33	33	33	17	17	17	26	26	17	17	17	17	33	12	12
June	1.....	26	26	26	26	26	26	12	12	12	20	20	12	12	12	12	26	10	10
Oct.	5.....	39	26	39	39	39	39	17	17	17	33	33	17	17	17	17	39	13	13
Nov.	18.....	49	30	49	49	49	49	23	23	23	39	39	23	23	23	23	49	17	17
1886—Mar.	10.....	53	32	53	53	53	53	25	25	25	43	43	25	25	25	25	53	18	18
Aug.	26.....	53	36	53	53	53	53	25	25	25	43	43	25	25	25	25	53	18	18
1887—Apr.	1.....	53	36	53	53	46	36	21	25	18	46	46	25	21	25	18	53	25	18
1888—Jan.	9.....	53	36	53	53	46	36	23	27	20	46	46	27	23	27	20	53	27	20
Aug.	15.....	53	36	53	53	46	53	21	25	18	46	46	25	21	25	18	53	25	18
Nov.	12.....	36	25	36	36	28	25	18	21	14	25	25	21	18	21	14	36	21	14
Dec.	17.....	53	36	53	53	46	36	21	25	18	46	46	25	21	25	18	53	25	18
1891—Apr.	9.....	53	36	53	53	46	21	18	25	18	46	46	25	21	25	18	53	25	18
1892—Mar.	16.....	53	36	53	53	46	21	18	25	18	25	18	25	18	25	18	53	25	15
May	2.....	53	36	53	53	46	21	18	25	18	25	18	25	18	25	18	53	25	18
June	6.....	53	36	53	53	46	21	18	25	18	25	18	25	18	25	18	53	25	16

NEW YORK, N. Y., TO CLEVELAND, OHIO—Continued.

Boston, 663 miles; Philadelphia, 541 miles; Baltimore, 521 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
22	22	22	22	29	29	22	22	29	29	29	29	22	22	22	22	29	22	Sp'l rate	29	29	22	22
26	26	23	23	35	35	23	23	35	35	35	25	23	23	26	26	35	26	do	35	35	26	26
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	30	do	46	46	39	39
39	39	30	30	59	65	30	30	59	59	59	59	30	30	39	39	59	39	do	59	59	49	49
30	30	23	23	35	35	23	23	35	35	35	35	23	23	30	30	35	30	do	35	35	26	26
39	39	30	30	59	65	30	30	59	59	59	59	30	30	39	39	59	do	39	59	59	49	94
30	30	23	23	35	49	23	23	35	35	35	35	23	23	30	30	35	do	30	35	35	26	26
23	23	18	18	32	35	18	18	32	32	32	32	18	18	23	23	32	do	23	32	32	30	30
18	18	15	15	25	25	15	15	25	25	25	25	15	15	18	18	25	do	18	25	25	20	20
20	20	15	15	30	40	15	15	30	30	30	30	15	15	20	20	30	do	20	30	30	25	25
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	do	30	46	46	39	39
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	do	20	25	25	20	20
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	do	30	46	46	39	39
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	do	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	do	10	15	15	15	15
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	do	30	46	46	39	39
26	26	26	26	46	49	26	26	26	26	46	46	26	26	26	26	46	do	26	46	26	26	26
30	20	30	30	59	65	30	30	30	30	59	59	30	30	30	30	59	do	30	59	30	30	30
30	30	30	30	52	65	30	30	30	30	52	52	30	30	30	30	52	po	30	52	30	30	30
26	26	26	26	39	49	26	26	26	26	39	39	26	26	26	26	39	do	26	39	26	26	26
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	do	13	21	13	13	13
19	19	19	19	33	39	19	19	19	19	33	33	19	19	19	19	33	do	19	33	19	19	19
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	do	18	32	18	18	18
17	17	20	20	33	39	20	20	20	20	33	33	20	20	20	20	33	do	20	33	20	20	20
23	23	23	23	39	49	23	23	23	23	39	39	23	23	23	23	39	do	23	39	23	23	23
17	17	23	23	39	49	23	23	23	23	39	39	23	23	23	23	39	do	23	39	23	23	23
12	12	17	17	26	33	17	17	17	17	26	26	17	17	17	17	26	do	17	26	17	17	17
10	10	12	12	20	26	12	12	12	12	20	20	12	12	12	12	20	do	12	20	12	12	12
13	13	17	17	33	39	17	17	17	17	33	33	17	17	17	17	33	do	17	33	17	17	17
17	17	23	23	39	49	23	23	23	23	39	39	23	23	23	23	39	do	23	39	23	23	23
18	18	25	25	43	53	25	25	25	25	43	43	25	25	25	25	43	do	25	43	25	25	25
18	18	25	25	43	53	25	25	25	25	43	43	25	25	25	25	43	do	25	43	25	25	25
25	21	25	25	46	53	25	21	36	25	36	25	25	18	25	21	46	36	21	25	21	36	21
27	23	27	27	46	53	27	23	36	27	36	27	27	20	27	23	46	36	23	27	23	36	23
25	21	25	18	46	53	21	18	36	25	36	25	25	18	25	21	46	36	21	25	21	36	21
21	18	21	14	25	36	21	18	25	21	21	14	21	14	21	18	25	25	18	21	18	25	18
25	21	25	18	46	53	25	21	36	25	36	25	25	18	25	21	46	36	21	25	21	36	21
25	21	25	18	46	53	21	18	36	25	36	25	25	18	21	18	46	36	21	25	21	36	21
25	21	25	18	46	53	21	18	36	25	36	25	25	18	21	18	46	36	21	25	21	36	21
25	21	25	18	46	53	21	18	36	25	36	25	25	18	21	18	46	36	21	25	21	36	21
25	21	25	18	46	53	21	18	36	35	36	25	25	18	21	18	46	36	21	25	21	36	21

TABLE 33.—RATES OF FREIGHT, ALL RAIL,

DISTANCE VIA SHORTEST ROUTE.—From New York, 497 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less than

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carload.	Less than carload.	Carloads.						
1867—May	15.....	113	113	113	113	113	113	113	113	95	95	95	95	75	75	95	95	113	50	50
Nov.	5.....	120	120	120	120	120	120	120	120	100	100	100	100	80	80	100	100	120	52	52
1868—Feb.	4.....	120	120	120	120	120	120	120	120	Special rate.		100	100	52	52	80	80	120	Special rate.	
June	4.....	113	113	113	113	113	113	113	113	..do....	..do....	95	95	50	50	75	75	113	..do....	..do....
Aug.	10.....	95	95	95	95	95	95	95	95	..do....	..do....	80	80	50	50	71	71	95	..do....	..do....
Sept.	7.....	113	113	113	113	113	113	113	113	..do....	..do....	95	95	50	50	75	75	113	..do....	..do....
Dec.	7.....	120	120	120	120	120	120	120	120	..do....	..do....	100	100	52	52	80	80	120	..do....	..do....
1869—Feb.	1.....	113	113	113	113	113	113	113	113	..do....	..do....	95	95	50	50	75	75	113	..do....	..do....
Mar.	15.....	100	100	100	100	100	100	100	100	..do....	..do....	95	95	50	50	75	75	100	..do....	..do....
Mar.	29.....	95	95	95	95	95	95	95	95	..do....	..do....	95	95	50	50	75	75	95	..do....	..do....
April	12.....	95	95	95	95	95	95	95	95	..do....	..do....	95	95	50	50	75	75	95	..do....	..do....
July	1.....	108	108	108	108	108	108	108	108	..do....	..do....	95	95	50	50	75	75	108	..do....	..do....
Aug.	11.....	35	35	35	35	35	35	35	35	..do....	..do....	35	35	35	35	35	35	35	..do....	..do....
Aug.	30.....	30	30	30	30	30	30	30	30	..do....	..do....	30	30	30	30	30	30	30	..do....	..do....
Sept.	24.....	25	25	25	25	25	25	25	25	..do....	..do....	25	25	25	25	25	25	25	..do....	..do....
Oct.	4.....	50	50	50	50	50	50	50	50	..do....	..do....	45	45	35	35	40	40	50	..do....	..do....
Oct.	13.....	80	80	80	80	80	80	80	80	..do....	..do....	63	63	41	41	48	48	80	..do....	..do....
Nov.	1.....	83	83	83	83	83	83	83	83	..do....	..do....	74	74	48	48	59	59	83	..do....	..do....
Nov.	29.....	89	89	89	89	89	89	89	89	..do....	..do....	76	76	48	48	59	59	89	..do....	..do....
1870—May	7.....	89	89	89	89	89	89	89	89	..do....	..do....	76	76	48	48	59	59	89	..do....	..do....
June	22.....	71	71	71	71	71	71	71	71	..do....	..do....	57	57	36	36	46	46	71	..do....	..do....
July	7.....	75	75	75	75	75	75	75	75	..do....	..do....	60	60	38	38	50	50	75	..do....	..do....
July	25.....	38	38	38	38	38	38	38	38	..do....	..do....	34	34	25	25	31	31	38	..do....	..do....
July	28.....	32	32	32	32	32	32	32	32	..do....	..do....	32	32	25	25	31	31	32	..do....	..do....
Aug.	12.....	32	32	32	32	32	32	32	32	..do....	..do....	32	32	32	32	32	32	32	..do....	..do....
Aug.	23.....	55	55	55	55	55	55	55	55	..do....	..do....	50	50	32	32	40	40	55	..do....	..do....
Sept.	8.....	74	74	74	74	74	74	74	74	..do....	..do....	65	65	40	40	50	50	74	..do....	..do....
Nov.	28.....	90	90	90	90	90	90	90	90	..do....	..do....	71	71	36	36	56	56	90	..do....	..do....
Dec.	26.....	106	106	106	106	106	106	106	106	35	35	88	88	46	46	70	70	106	35	35
1871—Feb.	20.....	88	88	88	88	88	88	88	88	32	32	75	75	41	41	58	58	88	32	32
Mar.	13.....	59	59	59	59	59	59	59	59	26	26	52	52	32	32	41	41	59	26	26
May	18.....	45	45	45	45	45	45	45	45	22	22	40	40	27	27	32	32	45	22	22
June	1.....	59	59	59	59	59	59	59	59	26	26	52	52	32	32	41	41	59	26	26
July	8.....	45	45	45	45	45	45	45	45	22	22	40	40	27	27	32	32	45	22	22
Aug.	16.....	29	29	29	29	29	29	29	29	20	20	29	29	29	29	29	29	29	20	20
Aug.	18.....	27	27	27	27	27	27	27	27	17	17	27	27	27	27	27	27	27	17	17
Aug.	22.....	23	23	23	23	23	23	23	23	17	17	23	23	23	23	23	23	23	17	17
Nov.	29.....	59	59	59	59	59	59	59	59	26	26	52	52	32	32	41	41	59	26	26
Dec.	15.....	82	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	33	33
1872—Apr.	27.....	82	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	33	33
Aug.	1.....	49	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
Sept.	1.....	82	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	33	33
Sept.	2.....	55	55	55	55	55	55	55	55	25	25	50	50	31	31	39	39	55	25	25
Oct.	14.....	82	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	33	33
1873—Apr.	14.....	65	65	65	65	65	65	65	65	25	25	55	55	35	35	45	45	65	25	25
June	11.....	49	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	23	23
July	22.....	49	49	49	49	49	49	49	49	20	20	40	40	30	30	35	35	49	20	20
Aug.	11.....	22	22	22	22	22	22	22	22	17	17	22	22	17	17	17	17	22	17	17
Aug.	12.....	40	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30
Aug.	13.....	35	35	35	35	35	35	35	35	18	18	35	35	26	26	28	28	35	18	18
Aug.	16.....	35	35	35	35	35	35	35	35	23	23	35	35	26	26	26	26	35	23	23
Aug.	21.....	29	29	29	29	29	29	29	29	22	22	29	29	22	22	22	22	29	22	22
Sept.	17.....	45	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20
1874—Jan.	1.....	60	60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	25	25
Aug.	3.....	45	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20
1875—Jan.	20.....	60	60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	25	25
Mar.	17.....	45	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20
Dec.	22.....	30	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan.	10.....	45	45	45	45	45	45	45	45	23	23	46	46	30	30	35	35	45	20	20
June	12.....	25	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
July	28.....	15	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10

FROM NEW YORK, N. Y., TO ERIE, PA.

Boston, 568 miles; Philadelphia, 446 miles; Baltimore, 425 miles.

carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molas- ses.		Rice.				Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.			Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	
50	50	50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75	
52	52	52	52	100	120	100	100	100	100	100	100	52	52	52	52	100	120	120	120	120	80	80	
Special rate.		52	52	100	120	100	100	100	100	100	100	52	52	52	52	100	120	120	120	120	80	80	
..do....		50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75	
..do....		50	50	80	95	80	80	80	80	80	80	50	50	50	50	80	95	95	95	95	71	71	
..do....		50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75	
..do....		52	52	100	120	100	100	100	100	100	100	52	52	52	52	100	120	120	120	120	80	80	
..do....		50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75	
..do....		50	50	95	100	95	95	95	95	95	95	50	50	50	50	95	100	100	100	100	75	75	
..do....		50	50	95	95	95	95	95	95	55	95	50	50	50	50	95	95	95	95	95	75	75	
..do....		50	50	95	95	Special rate.		95	95	95	95	50	50	50	50	95	95	95	95	95	75	75	
..do....		50	50	95	108	..do....		95	95	95	95	50	50	50	50	95	108	108	95	95	75	75	
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
..do....		30	30	30	30	..do....		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
..do....		25	25	25	25	..do....		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
..do....		35	35	45	50	..do....		45	45	45	45	35	35	35	35	45	50	50	45	45	40	40	
..do....		41	41	63	80	..do....		63	63	63	63	41	41	41	41	63	80	80	63	63	48	48	
..do....		48	48	74	83	..do....		74	74	74	74	48	48	48	48	74	83	83	74	74	59	59	
..do....		48	48	76	89	..do....		76	76	76	76	48	48	48	48	76	89	89	76	76	59	59	
..do....		Special rate.		76	89	..do....		76	76	76	76	48	48	48	48	76	89	89	76	76	59	59	
..do....		..do....		57	71	..do....		57	57	57	57	36	36	36	36	57	71	71	57	57	46	46	
..do....		..do....		60	75	..do....		60	60	60	60	38	38	38	38	60	75	75	60	60	50	50	
..do....		..do....		34	38	..do....		34	34	34	34	25	25	25	25	34	38	38	34	34	31	31	
..do....		..do....		32	32	..do....		32	32	32	32	25	25	25	25	32	32	32	32	32	31	31	
..do....		..do....		32	32	..do....		32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
..do....		..do....		50	55	..do....		50	50	50	50	31	31	31	32	50	55	55	50	50	40	40	
..do....		..do....		65	74	..do....		65	65	65	65	40	40	40	40	65	74	74	65	65	50	50	
..do....		..do....		71	90	..do....		71	71	71	71	36	36	36	36	71	90	90	71	71	56	56	
46	46	46	46	88	106	88	88	88	88	88	88	46	46	46	46	88	106	106	88	88	70	70	
41	41	41	41	75	88	32	32	75	75	75	75	32	32	41	41	75	88	88	75	75	58	58	
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41	
27	27	27	27	40	45	22	22	40	40	40	40	22	22	27	27	40	45	45	40	40	32	32	
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41	
27	27	27	27	40	45	22	22	40	40	40	40	22	22	27	27	40	45	45	40	40	32	32	
29	29	29	29	29	29	20	20	29	29	29	29	20	20	29	29	29	29	29	29	29	29	29	
27	27	27	27	27	27	17	17	27	27	27	27	17	17	27	27	27	27	27	27	27	27	27	
23	23	23	23	23	23	17	17	23	23	23	23	17	17	23	23	23	23	23	23	23	23	23	
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41	
43	43	43	43	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
43	43	33	33	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
30	30	23	23	46	49	46	46	46	46	46	46	23	23	30	30	46	49	49	46	46	39	39	
43	43	43	43	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
31	31	25	25	50	55	50	50	50	50	50	50	25	25	31	31	50	55	55	50	50	39	39	
43	43	33	33	72	82	33	33	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
35	35	25	25	55	65	25	25	55	55	55	55	25	25	35	35	55	Spe'l rate.	35	55	55	45	45	
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	..do.	30	46	46	39	39	
30	30	20	20	40	49	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
17	17	17	17	22	22	17	17	22	22	22	22	17	17	17	17	22	..do.	17	22	22	17	17	
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	..do.	30	40	40	30	30	
26	26	18	18	35	35	18	18	35	35	35	35	18	18	26	26	35	..do.	26	35	35	28	28	
26	26	23	23	35	35	23	23	35	35	35	35	23	23	26	26	35	..do.	23	35	35	26	26	
22	22	22	22	29	29	22	22	29	29	29	29	22	22	22	22	29	..do.	22	29	29	22	22	
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	..do.	30	50	50	40	40	
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	..do.	30	50	50	40	40	
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	..do.	20	25	25	20	20	
30	30	20	20	46	45	23	23	46	46	46	46	20	20	30	30	46	..do.	30	46	46	35	35	
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	..do.	16	25	25	25	25	
10	10	10	10	15	15	10	10	15	15														

TABLE 33.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 497 miles;
[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furni- ture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com- mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1877—Oct.	8.....	40	40	40	40	40	40	24	24	24	35	35	24	24	24	24	40	24	24
	Oct. 22.....	60	60	60	60	60	60	26	26	26	50	50	26	26	26	26	60	26	26
	Dec. 10.....	60	60	60	60	60	60	26	26	26	44	44	26	26	26	26	60	26	26
	Dec. 18.....	40	40	40	40	40	40	20	20	20	35	35	25	25	35	30	40	20	20
1878—Feb.	14.....	43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	23
1882—Jan.	24.....	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	13
	Apr. 24.....	19	19	19	19	19	19	10	10	10	16	16	10	10	10	10	19	10	10
	July 1.....	35	35	35	35	35	35	17	17	17	30	30	17	17	17	17	35	13	13
	Nov. 1.....	43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	20	20
1883—June	22.....	43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	15	15
1887—Apr.	1.....	45	30	45	45	39	30	18	21	15	39	39	23	20	23	16½	45	21	15
1888—Jan.	9.....	45	30	45	45	39	30	20	23	16½	39	39	23	20	23	16½	45	23	16½
	Mar. 5.....	45	30	45	45	39	30	18	21	15	39	39	21	18	21	15	45	21	15
	Nov. 12.....	30	21	30	30	24	21	15	18	12	24	24	18	15	18	12	30	18	12
	Dec. 17.....	45	30	45	45	39	30	18	21	15	39	39	21	18	21	15	45	21	15
1889—Feb.	18.....	45	30	45	45	39	45	18	21	15	39	39	21	18	21	15	45	21	15
1891—Apr.	9.....	45	30	45	45	39	18	15	21	15	39	39	21	18	21	15	45	21	15
1892—Mar.	16.....	45	30	45	45	39	18	15	21	15	21	18	21	18	21	18	45	21	13
	May 2.....	45	30	45	45	39	18	15	21	15	21	15	21	15	21	15	45	21	15

NEW YORK, N. Y., TO ERIE, PA.—Continued.

Boston, 568 miles; Philadelphia, 446 miles; Baltimore, 425 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
24	24	24	24	35	40	24	24	24	24	40	40	24	24	24	24	35	Spe'l rate.	24	40	24	24	24
26	26	26	26	50	60	26	26	26	26	50	50	26	26	26	26	50	do.	26	50	26	26	36
26	26	26	26	44	60	26	26	26	26	44	44	26	26	26	26	44	do.	26	44	26	26	26
25	25	20	20	35	40	20	20	35	35	35	35	20	20	25	25	35	do.	25	35	20	30	30
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	do.	23	35	23	23	23
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	do.	13	21	13	13	13
10	10	10	10	16	19	10	10	10	10	16	16	10	10	10	10	16	do.	10	16	10	10	10
13	13	17	17	30	35	17	17	17	17	30	30	17	17	17	17	30	do.	17	30	17	17	17
20	20	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	do.	20	35	20	20	20
15	15	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	do.	20	35	20	20	20
21	18	21	21	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
23	20	23	16½	39	45	23	20	30	23	30	23	23	16½	23	20	39	23	20	23	20	30	20
21	18	21	15	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
18	15	18	12	24	30	18	15	21	18	21	18	18	12	18	15	24	21	15	18	15	21	15
21	18	21	15	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	18	15	39	30	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	18	15	39	45	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	18	15	39	45	18	21	18	30	18

TABLE 34.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 409 miles;
[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds.)																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
												Less than carloads.	Carloads.							
1867—May 15.....			88	88	88	88	88	88	88	75	75	75	75	50	50	75	75	88	33	33
Nov. 5.....			95	95	95	95	95	95	95	80	80	80	80	65	65	80	80	95	40	40
Dec. 23.....			110	110	110	110	110	110	110	95	95	95	95	75	75	95	95	110	55	55
1868—Feb. 4.....			110	110	110	110	110	110	110	Special rate.		95	95	55	55	75	75	110	Special rate.	
Mar. 24.....			95	95	95	95	95	95	95	..do....	..do....	80	80	40	40	65	65	95	..do....	..do....
May 8.....			95	95	95	95	95	95	95	..do....	..do....	80	80	35	35	65	65	95	..do....	..do....
June 23.....			87	87	87	87	87	87	87	..do....	..do....	71	71	35	35	58	58	87	..do....	..do....
Dec. 8.....			110	110	110	110	110	110	110	..do....	..do....	95	95	55	55	75	75	110	..do....	..do....
1869—Mar. 1.....			95	95	95	95	95	95	95	..do....	..do....	80	80	40	40	65	65	95	..do....	..do....
Apr. 12.....			95	95	95	95	95	95	95	..do....	..do....	80	80	40	40	65	65	95	..do....	..do....
Apr. 16.....			87	87	87	87	87	87	87	..do....	..do....	71	71	35	35	58	58	87	..do....	..do....
Sept. 24.....			50	50	50	50	50	50	50	..do....	..do....	40	40	20	20	30	30	50	..do....	..do....
Oct. 4.....			60	60	60	60	60	60	60	..do....	..do....	50	50	30	30	40	40	60	..do....	..do....
Nov. 18.....			66	66	66	66	66	66	66	..do....	..do....	59	59	38	38	47	47	66	..do....	..do....
Dec. 7.....			110	110	110	110	110	110	110	..do....	..do....	95	95	55	55	75	75	110	..do....	..do....
1870—Mar. 7.....			110	110	110	110	110	110	110	..do....	..do....	95	95	55	55	75	75	110	..do....	..do....
Apr. 1.....			87	87	87	87	87	87	87	..do....	..do....	71	71	35	35	71	71	87	..do....	..do....
July 7.....			60	60	60	60	60	60	60	..do....	..do....	50	50	30	30	40	40	60	..do....	..do....
Nov. 28.....			80	80	80	80	80	80	80	..do....	..do....	65	65	32½	32½	50	50	80	..do....	..do....
Dec. 26.....			90	90	90	90	90	90	90	30	30	72	72	40	40	60	60	90	30	30
1871—Feb. 20.....			90	90	90	90	90	90	90	30	30	72	72	40	40	60	60	90	30	30
May 18.....			70	70	70	70	70	70	70	25	25	60	60	35	35	50	50	70	25	25
Dec. 2.....			90	90	90	90	90	90	90	30	30	72	72	40	40	60	60	90	30	30
Dec. 8.....			85	85	85	85	85	85	85	....	....	65	65	40	40	60	60	85	....	....
Dec. 15.....			82	82	82	82	82	82	82	30	30	72	72	43	43	56	56	82	30	30
1872—Apr. 27.....			70	70	70	70	70	70	70	25	25	60	60	35	35	50	50	70	25	25
Aug. 1.....			55	55	55	55	55	55	55	25	25	45	45	35	35	40	40	55	25	25
Sept. 1.....			85	85	85	85	85	85	85	....	....	65	65	40	40	60	60	85	....	....
Sept. 2.....			70	70	70	70	70	70	70	25	25	60	60	35	35	50	50	70	25	25
Oct. 14.....			85	85	85	85	85	85	85	30	30	65	65	40	40	60	60	85	30	30
1873—Jan. 14.....			75	75	75	75	75	75	75	30	30	60	60	40	40	50	50	75	30	30
Apr. 14.....			65	65	65	65	65	65	65	25	25	55	55	35	35	45	45	65	25	25
July 22.....			50	50	50	50	50	50	50	20	20	40	40	30	30	35	35	50	20	20
Aug. 13.....			22	22	22	22	22	22	22	17	17	22	22	17	17	17	17	22	17	17
1874—Jan. 1.....			60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	25	25
Aug. 1.....			45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20
Dec. 24.....			85	85	85	85	85	85	85	....	....	65	65	40	40	60	60	85	....	....
1875—Jan. 20.....			60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	25	25
Mar. 17.....			45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20
Dec. 22.....			30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan. 10.....			45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20
June 12.....			25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
July 28.....			15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10
Aug. 7.....			25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
Dec. 18.....			40	40	40	40	40	40	40	20	20	35	35	25	25	30	30	40	20	20
1877—Mar. 12.....			45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20
Oct. 8.....			45	45	45	45	45	45	24	24	24	40	40	24	24	24	24	45	24	24
Oct. 22.....			60	60	60	60	60	60	26	26	26	50	50	26	26	26	26	60	26	26
Dec. 10.....			60	60	60	60	60	60	26	26	26	44	44	26	26	26	26	60	26	26
1878—Feb. 14.....			43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	23
Mar. 28.....			43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	23
1880—Jan. 1.....			43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	23
1881—Aug. 6.....			30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	13
1882—Jan. 24.....			39	39	39	39	39	39	18	18	18	32	32	18	18	18	18	39	18	18
July 1.....			35	35	35	35	35	35	17	17	17	30	30	17	17	17	17	35	13	13
Nov. 1.....			43	43	43	43	43	43	20	20	20	35	35	17	17	17	17	43	20	20
1883—June 22.....			43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	15	15
1887—Apr. 1.....			39	28	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	13
1888—Jan. 9.....			39	28	39	39	33	28	17	20	14	33	33	20	17	20	14	39	20	14
Mar. 5.....			39	28	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	13
1891—June 20.....			39	28	39	39	33	28	16	19	13	19	13	19	13	19	13	39	19	13

NEW YORK, N. Y., TO BUFFALO, N. Y.

Boston, 480 miles; Philadelphia, 418 miles; Baltimore, 398 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agricul- tural im- ple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
33	33	33	33	75	88	75	75	75	75	75	75	33	33	33	33	75	88	88	75	75	50	50
40	40	40	40	80	95	80	80	80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
55	55	55	55	95	110	95	95	95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
Special rate.		55	55	95	110	95	95	95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		40	40	80	95	80	80	80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
..do....		35	35	80	95	80	80	80	80	80	80	35	35	35	35	80	95	95	80	80	65	65
..do....		35	35	71	87	71	71	71	71	71	71	35	35	35	35	71	87	87	71	71	58	58
..do....		55	55	95	110	95	95	95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		40	40	80	95	80	80	80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
..do....		40	40	80	95	Special rate.		80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
..do....		35	35	71	87	..do....		71	71	71	71	35	35	35	35	71	87	87	71	71	58	58
..do....		Special rate.		40	50	..do....		40	40	40	40	20	20	20	20	40	50	50	40	40	30	30
..do....		..do....		50	60	..do....		50	50	50	50	30	30	30	30	50	60	60	50	50	40	40
..do....		..do....		59	66	..do....		59	59	59	59	38	38	38	38	59	66	66	59	59	47	47
..do....		55	55	95	110	..do....		95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		Special rate.		95	110	..do....		95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		..do....		71	87	..do....		71	71	71	71	35	35	35	35	71	87	87	71	71	71	71
..do....		..do....		50	60	..do....		50	50	50	50	30	30	30	30	50	60	60	50	50	40	40
..do....		..do....		65	80	..do....		65	65	65	65	32½	32½	32½	32½	65	80	80	65	65	50	50
40	40	40	40	72	90	72	72	72	72	72	72	40	40	40	40	72	90	90	90	90	60	60
40	40	40	40	72	90	30	30	72	72	72	72	30	30	40	40	72	90	90	90	90	60	60
35	35	35	35	60	70	25	25	60	60	60	60	25	25	35	35	60	70	70	70	70	50	50
40	40	40	40	72	90	30	30	72	72	72	72	30	30	40	40	72	90	90	90	90	60	60
.....		40	40	65	85	.....		65	65	65	65	.....		40	40	65	85	85	65	65	60	60
43	43	43	43	72	82	72	72	72	72	72	72	30	30	43	43	72	82	82	72	72	56	56
35	35	30	30	60	70	60	60	60	60	60	60	25	25	35	35	60	70	70	60	60	50	50
35	35	25	25	45	55	45	45	45	45	45	45	25	25	35	35	45	55	55	45	45	40	40
40	40	40	40	65	85	65	65	65	65	65	65	32½	32½	40	40	65	85	85	65	65	60	60
35	35	25	25	60	70	60	60	60	60	60	60	25	25	35	35	60	70	70	60	60	50	50
40	40	30	30	65	85	30	30	65	65	65	65	30	30	40	40	65	85	85	65	65	60	60
40	40	30	30	60	75	30	30	60	60	60	60	30	30	40	40	60	75	75	60	60	50	50
35	35	25	25	55	65	25	25	55	55	55	55	25	25	35	35	55	Sp'l rate	35	55	55	45	45
30	30	20	20	40	50	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35
17	17	17	17	22	22	17	17	22	22	22	22	17	17	17	17	22	..do.	17	22	22	17	17
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	..do.	30	50	50	40	40
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35
40	40	.....		65	85	.....		65	65	65	65	.....		40	40	65	..do.	40	65	65	60	60
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	..do.	30	50	50	40	40
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	..do.	20	25	25	20	20
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	..do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	..do.	10	15	15	15	15
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	..do.	16	25	25	25	25
25	25	20	20	35	40	20	20	35	35	35	35	20	20	25	25	35	..do.	25	35	35	30	30
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35
24	24	24	24	40	45	24	24	24	24	40	40	24	24	24	24	40	..do.	24	40	24	24	24
26	26	26	26	50	60	26	26	26	26	50	50	26	26	26	26	50	..do.	26	50	26	26	26
26	26	26	26	44	60	26	26	26	26	44	44	26	26	26	26	44	..do.	26	44	26	26	26
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	..do.	23	35	23	23	23
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	..do.	23	43	23	23	23
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	..do.	23	35	23	23	23
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	..do.	13	21	13	13	13
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	..do.	18	32	18	18	18
13	13	17	17	30	35	17	17	17	17	30	30	17	17	17	17	30	..do.	17	30	17	17	17
20	20	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	..do.	20	35	20	20	20
15	15	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	..do.	20	35	20	20	20
19	16	19	19	33	39	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
20	17	20	14	33	39	20	17	28	20	28	20	20	14	20	17	33	28	17	20	17	28	17
19	16	19	13	33	39	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	39	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16

TABLE 35.—RATES OF FREIGHT, ALL RAIL,

DISTANCE VIA SHORTEST ROUTE.—From New York, 359 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.			Commodities (rates in cents per 100 pounds).																	
			Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
												Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1867—May 15.....	84	84	84	84	84	84	84	71	71	71	71	46	46	71	71	84	32	32		
Nov. 5.....	90	90	90	90	90	90	90	75	75	75	75	60	60	75	75	90	36	36		
Dec. 23.....	105	105	105	105	105	105	105	90	90	90	90	70	70	90	90	105	53	53		
1868—Feb. 4.....	105	105	105	105	105	105	105	Special rate.		90	90	53	53	70	70	105	Special rate.			
Mar. 23.....	85	85	85	85	85	85	85	do.		70	70	36	36	58	58	85	do.			
May 8.....	85	85	85	85	85	85	85	do.		70	70	30	30	58	58	85	do.			
May 15.....	77	77	77	77	77	77	77	do.		66	66	30	30	55	55	77	do.			
1869—Mar. 1.....	85	85	85	85	85	85	85	do.		70	70	36	36	58	58	85	do.			
Apr. 15.....	77	77	77	77	77	77	77	do.		66	66	30	30	55	55	77	do.			
Dec. 7.....	105	105	105	105	105	105	105	do.		90	90	53	53	70	70	105	do.			
1870—Mar. 7.....	105	105	105	105	105	105	105	do.		90	90	53	53	70	70	105	do.			
Apr. 1.....	77	77	77	77	77	77	77	do.		66	66	30	30	55	55	77	do.			
Nov. 28.....	77	77	77	77	77	77	77	do.		62	62	30	30	48	48	77	do.			
Dec. 26.....	85	85	85	85	85	85	85	30	30	67	67	40	40	55	55	85	30	30		
1871—Feb. 20.....	85	85	85	85	85	85	85	30	30	67	67	40	40	55	55	85	30	30		
Mar. 13.....	81	81	81	81	81	81	81	30	30	68	68	34	34	58	58	81	30	30		
May 18.....	60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	25	25		
Dec. 2.....	85	85	85	85	85	85	85	30	30	67	67	40	40	55	55	85	30	30		
Dec. 8.....	77	77	77	77	77	77	77	do.		62	62	37	37	55	55	77	do.			
Dec. 15.....	77	77	77	77	77	77	77	30	30	62	62	37	37	55	55	77	30	30		
1872—Apr. 5.....	77	77	77	77	77	77	77	do.		62	62	34	34	55	55	77	do.			
Apr. 27.....	77	77	77	77	77	77	77	30	30	62	62	37	37	55	55	77	30	30		
Sept. 2.....	77	77	77	77	77	77	77	30	30	62	62	34	34	55	55	77	30	30		
Oct. 14.....	77	77	77	77	77	77	77	30	30	62	62	34	34	55	55	77	30	30		
1873—Jan. 14.....	70	70	70	70	70	70	70	27	27	55	55	35	35	45	45	70	27	27		
Apr. 14.....	60	60	60	60	60	60	60	22	22	50	50	30	30	40	40	60	22	22		
Aug. 8.....	50	50	50	50	50	50	50	20	20	40	40	30	30	35	35	50	20	20		
Dec. 6.....	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20		
1874—Jan. 1.....	55	55	55	55	55	55	55	22	22	45	45	30	30	35	35	55	22	22		
Aug. 1.....	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20		
Dec. 24.....	77	77	77	77	77	77	77	do.		62	62	37	37	55	55	77	do.			
1875—Jan. 20.....	55	55	55	55	55	55	55	22	22	45	45	30	30	40	40	55	22	22		
Mar. 17.....	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20		
Dec. 2.....	77	77	77	77	77	77	77	do.		62	62	37	37	55	55	77	do.			
Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15		
1876—Jan. 10.....	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20		
Apr. 3.....	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20		
June 12.....	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	20		
1877—Oct. 8.....	45	45	45	45	45	45	22	22	22	40	40	22	22	22	22	45	22	22		
Oct. 22.....	55	55	55	55	55	55	24	24	24	45	45	24	24	24	24	55	24	24		
Dec. 10.....	55	55	55	55	55	55	24	24	24	40	40	24	24	24	24	55	24	24		
1878—Feb. 14.....	40	40	40	40	40	40	20	20	20	30	30	20	20	20	20	40	20	20		
1881—Aug. 6.....	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	13		
1882—Jan. 24.....	39	39	39	39	39	39	18	18	18	32	32	18	18	18	18	39	18	18		
July 1.....	35	35	35	35	35	35	17	17	17	30	30	17	17	17	17	35	13	13		
1892—Feb. 1.....	39	39	39	39	33	28	16	19	13	19	13	19	13	19	13	39	19	13		

FROM NEW YORK, N. Y., TO ROCHESTER, N. Y.

Boston, 412 miles; Philadelphia, 375 miles; Baltimore, 354 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molas- ses.		Rice.				Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.			Agri- cultural imple- ments.		Machin- ery.		Beer.		
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	
32	32	32	32	71	84	71	71	71	71	71	71	32	32	32	32	71	84	84	71	71	46	46	
36	36	36	36	75	90	75	75	75	75	75	75	36	36	36	36	75	90	90	75	75	60	60	
53	53	53	53	90	105	90	90	90	90	90	90	53	53	53	53	90	105	105	90	90	70	70	
Special rate.	53	53	53	90	105	90	90	90	90	90	90	53	53	53	53	90	105	105	90	90	70	70	
..do....	36	36	36	70	85	70	70	70	70	70	70	36	36	36	36	70	85	85	70	70	58	58	
..do....	30	30	30	70	85	70	70	70	70	70	70	30	30	30	30	70	85	85	70	70	58	58	
..do....	30	30	30	66	77	66	66	66	66	66	66	30	30	30	30	66	77	77	66	66	55	55	
..do....	36	36	36	70	85	Special rate.	70	70	70	70	70	36	36	36	36	70	85	85	70	70	58	58	
..do....	30	30	30	66	77	..do....	66	66	66	66	66	30	30	30	30	66	77	77	66	66	55	55	
..do....	53	53	53	90	105	..do....	90	90	90	90	90	53	53	53	53	90	105	105	90	90	70	70	
..do....	Special rate.	90	90	90	105	62	62	90	90	90	90	53	53	53	53	90	105	105	90	90	70	70	
..do....	..do....	66	77	66	77	..do....	66	66	66	66	66	30	30	30	30	66	77	77	66	66	55	55	
30	30	30	30	62	77	..do....	62	62	62	62	62	30	30	30	30	62	77	77	62	62	48	48	
30	40	40	40	67	85	67	67	67	67	67	67	40	40	40	40	67	85	85	67	67	55	55	
40	40	40	40	67	85	30	30	67	67	67	67	30	30	40	40	67	85	85	67	67	55	55	
34	34	34	34	68	81	30	30	68	68	68	68	30	30	34	34	68	81	81	68	68	58	58	
30	30	30	30	50	60	25	25	50	50	50	50	25	25	30	30	50	60	60	50	50	40	40	
40	40	40	40	67	85	30	30	67	67	67	67	30	30	40	40	67	85	85	67	67	55	55	
37	37	37	37	62	77	....	....	62	62	62	62	....	....	37	37	62	77	77	62	62	55	55	
37	37	37	37	62	77	62	62	62	62	62	62	30	30	37	37	62	77	77	62	62	55	55	
34	34	34	34	62	77	....	....	62	62	62	62	....	....	34	34	62	77	77	62	62	55	55	
37	37	30	30	62	77	62	62	62	62	62	62	30	30	37	37	62	77	77	62	62	55	55	
34	34	30	30	62	77	62	62	62	62	62	62	30	30	34	34	62	77	77	62	62	55	55	
34	34	30	30	62	77	30	30	62	62	62	62	30	30	34	34	62	77	77	62	62	55	55	
35	35	27	27	55	70	27	27	55	55	55	55	27	27	35	35	55	70	70	55	55	45	45	
30	30	22	22	50	60	22	27	50	50	50	50	22	22	30	30	50	Spol rate.	30	50	50	40	40	
30	30	20	20	40	50	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
22	22	22	22	45	55	22	22	45	45	45	45	22	22	30	30	45	..do.	30	45	45	40	40	
20	20	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
37	37	....	....	62	77	....	....	62	62	62	62	....	....	37	37	62	..do.	37	62	62	55	55	
30	30	22	22	45	55	22	22	45	45	45	45	22	22	30	30	45	..do.	30	45	45	40	40	
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
37	37	....	....	62	77	....	....	62	62	62	62	....	....	37	37	62	..do.	37	62	62	55	55	
20	20	15	55	25	30	15	15	25	25	25	25	15	15	20	20	25	..do.	20	25	25	20	20	
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
30	30	20	20	40	45	20	20	40	40	40	40	30	30	30	30	40	..do.	30	40	40	35	35	
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do.	30	40	40	35	35	
22	22	22	22	40	45	22	22	22	22	40	40	22	22	22	22	40	..do.	22	40	22	22	22	
24	24	24	24	45	55	24	24	24	24	45	45	24	24	24	24	45	..do.	24	45	24	24	24	
24	24	24	24	40	55	24	24	24	24	40	40	24	24	24	24	40	..do.	24	40	24	24	24	
20	20	20	20	30	40	20	20	20	20	30	30	20	20	20	20	30	..do.	20	30	20	20	20	
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	..do.	13	21	13	13	13	
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	..do.	18	32	18	18	18	
13	13	17	17	30	35	17	17	17	17	30	30	17	17	17	17	30	..do.	17	30	17	17	17	
19	16	19	13	33	39	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16	

TABLE 36.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 444 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Common.		Less than carloads.	Carloads.		Less than carloads.	Carloads.
											Less than carloads.	Carloads.	Less than carloads.	Carloads.					
1868—Oct.	2.....	55	55	55	55	55	55	55	55	Special rate.	53	53	33	33	46	46	55	Special rate.	
	Oct. 3.....	33	33	33	33	33	33	33	33	do....	33	33	33	33	33	33	33	do....	
	Nov. 2.....	71	71	71	71	71	71	71	71	do....	56	56	33	33	46	46	71	do....	
	Dec. 1.....	86	86	86	86	86	86	86	86	do....	71	71	33	33	56	56	86	do....	
1869—May	12.....	86	86	86	86	86	86	86	86	do....	71	71	33	33	56	56	86	do....	
	Nov. 29.....	71	71	71	71	71	71	71	71	do....	56	56	36	36	46	46	71	do....	
1870—May	7.....	71	71	71	71	71	71	71	71	do....	56	56	36	36	46	46	71	do....	
	July 13.....	52	52	52	52	52	52	52	52	do....	45	45	31	31	35	35	52	23 23	
	July 28.....	38	38	38	38	38	38	38	38	do....	38	38	28	28	35	35	38	22 22	
	Aug. 11.....	32	32	32	32	32	32	32	32	do....	32	32	28	28	32	32	32	22 22	
	Aug. 15.....	32	32	32	32	32	32	32	32	do....	32	32	30	30	32	32	32	Special rate.	
	Aug. 22.....	60	60	60	60	60	60	60	60	do....	50	50	31	31	40	40	60	do....	
	Aug. 24.....	59	59	59	59	59	59	59	59	do....	50	50	31	31	40	40	59	do....	
	Sept. 8.....	71	71	71	71	71	71	71	71	do....	56	56	36	36	46	46	71	do....	
	Nov. 29.....	71	71	71	71	71	71	71	71	do....	56	56	33	33	46	46	71	do....	
	Dec. 1.....	86	86	86	86	86	86	86	86	do....	71	71	33	33	56	56	86	do....	
	Dec. 26.....	86	86	86	86	86	86	86	86	33 33	71	71	33	33	56	56	86	33 33	
1871—Jan.	1.....	86	86	86	86	86	86	86	86	33 33	71	71	36	36	56	56	86	33 33	
	Feb. 20.....	86	86	86	86	86	86	86	86	30 30	71	71	36	36	56	56	86	30 30	
	Mar. 13.....	59	59	59	59	59	59	59	59	26 26	52	52	32	32	41	41	59	26 26	
	Apr. 21.....	55	55	55	55	55	55	55	55	25 25	50	50	30	30	40	40	55	25 25	
	May 18.....	45	45	45	45	45	45	45	45	22 22	40	40	27	27	32	32	45	22 22	
	June 1.....	59	59	59	59	59	59	59	59	25 25	52	52	32	32	41	41	59	25 25	
	June 15.....	45	45	45	45	45	45	45	45	22 22	40	40	26	26	32	32	45	22 22	
	July 28.....	38	38	38	38	38	38	38	38	22 22	38	38	26	26	32	32	38	22 22	
	Aug. 7.....	32	32	32	32	32	32	32	32	22 22	32	32	26	26	32	32	32	22 22	
	Aug. 16.....	29	29	29	29	29	29	29	29	20 20	29	29	26	26	29	29	29	20 20	
	Aug. 22.....	23	23	23	23	23	23	23	23	17 17	23	23	23	23	23	23	23	17 17	
	Sept. 5.....	20	20	20	20	20	20	20	20	16 16	20	20	20	20	20	20	20	16 16	
	Dec. 1.....	54	54	54	54	54	54	54	54	28 28	48	48	30	30	38	38	54	28 28	
	Dec. 15.....	54	54	54	54	54	54	54	54	28 28	48	48	30	30	38	38	54	28 28	
1872—Jan.	1.....	54	54	54	54	54	54	54	54	23 23	48	48	30	30	38	38	54	23 23	
1872—Apr.	27.....	54	54	54	54	54	54	54	54	23 23	48	48	30	30	38	38	54	23 23	
	Aug. 1.....	45	45	45	45	45	45	45	45	20 20	43	43	25	25	37	37	45	20 20	
	Aug. 6.....	43	43	43	43	43	43	43	43	19 19	39	39	25	25	33	33	43	19 19	
	Sept. 2.....	53	53	53	53	53	53	53	53	23 23	48	48	30	30	37	37	53	23 23	
	Oct. 14.....	53	53	53	53	53	53	53	53	23 23	48	48	30	30	37	37	53	23 23	
	Oct. 15.....	66	66	66	66	66	66	66	66	25 25	51	51	31	31	41	41	66	25 25	
	Oct. 19.....	45	45	45	45	45	45	45	45	23 23	40	40	27	27	32	32	45	23 23	
	Oct. 29.....	66	66	66	66	66	66	66	66	25 25	51	51	31	31	41	41	66	25 25	
1873—Apr.	14.....	55	55	55	55	55	55	55	55	20 20	51	51	27	27	41	41	55	20 20	
	June 26.....	50	50	50	50	50	50	50	50	20 20	40	40	27	27	35	35	50	20 20	
	July 22.....	45	45	45	45	45	45	45	45	20 20	40	40	27	27	35	35	45	20 20	
	Aug. 2.....	44	44	44	44	44	44	44	44	18 18	36	36	26	26	31	31	44	18 18	
	Aug. 11.....	38	38	38	38	38	38	38	38	18 18	36	36	26	26	28	28	38	18 18	
	Aug. 13.....	35	35	35	35	35	35	35	35	18 18	35	35	26	26	28	28	35	18 18	
	Aug. 16.....	33	33	33	33	33	33	33	33	18 18	33	33	25	25	25	25	33	18 18	
	Aug. 20.....	29	29	29	29	29	29	29	29	18 18	29	29	22	22	22	22	29	18 18	
	Sept. 17.....	45	45	45	45	45	45	45	45	20 20	40	40	27	27	35	35	45	20 20	
	Sept. 18.....	40	40	40	40	40	40	40	40	18 18	35	35	27	27	30	30	40	18 18	
	Sept. 22.....	40	40	40	40	40	40	40	40	18 18	35	35	27	27	30	30	40	18 18	
1874—Apr.	20.....	50	50	50	50	50	50	50	50	20 20	40	40	25	25	35	35	50	20 20	
	July 31.....	40	40	40	40	40	40	40	40	18 18	35	35	25	25	30	30	40	18 18	
1875—Jan.	19.....	53	53	53	53	53	53	53	53	23 23	44	44	28	28	35	35	53	23 23	
	Feb. 17.....	53	53	53	53	53	53	53	53	20 20	44	44	28	28	35	35	53	20 20	
	Mar. 16.....	40	40	40	40	40	40	40	40	18 18	35	35	25	25	30	30	40	18 18	
	June 21.....	23	23	23	23	23	23	23	23	16 16	23	23	16	16	19	19	23	16 16	
	Aug. 12.....	35	35	35	35	35	35	35	35	14 14	25	25	18	18	22	22	35	14 14	
	Aug. 13.....	35	35	35	35	35	35	35	35	15 15	25	25	20	20	23	23	35	15 15	
	Nov. 15.....	36	36	36	36	36	36	36	36	16 16	32	32	24	24	28	28	36	16 16	
	Dec. 22.....	27	27	27	27	27	27	27	27	14 14	23	23	18	18	18	18	27	14 14	

PHILADELPHIA, PA., TO PITTSBURG, PA.

Boston, 657 miles; Philadelphia, 354 miles; Baltimore, 333 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
Special rate.		33	33	53	55	53	53	53	53	53	53	33	33	33	33	53	55	55	53	53	46	46
do.				33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
do.				56	71	56	56	56	56	56	56	33	33	33	33	56	71	71	56	56	46	46
do.				71	86	71	71	71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
do.				71	86	Special rate.		71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
do.		36	36	56	71	do.		56	56	56	56	36	36	36	36	56	71	71	56	56	46	46
do.		Special rate.		56	71	do.		56	56	56	56	36	36	36	36	56	71	71	56	56	46	46
do.		do.		45	52	do.		45	45	45	45	31	31	31	31	45	52	52	45	45	35	35
do.		do.		38	38	do.		38	38	38	38	28	28	28	28	38	38	38	38	38	25	35
do.		do.		32	32	do.		32	32	32	32	28	28	28	28	32	32	32	32	32	32	32
do.		do.		32	32	do.		32	32	32	32	30	30	30	30	32	32	32	32	32	32	32
do.		do.		50	60	do.		50	50	50	50	31	31	31	31	50	60	60	50	50	40	40
do.		do.		50	59	do.		50	50	50	50	31	31	31	31	50	59	59	50	50	40	40
do.		do.		56	71	do.		56	56	56	56	36	36	36	36	56	71	71	56	56	46	46
do.		do.		56	71	do.		56	56	56	56	33	33	33	33	56	71	71	56	56	46	46
do.		do.		71	86	do.		71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
33	33	33	33	71	86	71	71	71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
36	36	36	36	71	86	71	71	71	71	71	71	36	36	36	36	71	86	86	71	71	56	56
36	36	36	36	71	86	30	30	71	71	71	71	30	30	36	36	71	86	86	71	71	56	56
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41
30	30	30	30	50	55	25	25	50	50	50	50	25	25	30	30	50	55	55	50	50	40	40
27	27	27	27	40	45	22	22	40	40	40	40	22	22	27	27	40	45	45	40	40	32	32
32	32	32	32	52	59	25	25	52	52	52	52	25	25	32	32	52	59	59	52	52	41	41
26	26	26	26	40	45	22	22	40	40	40	40	22	22	26	26	40	45	45	40	40	32	32
26	26	26	26	38	38	22	22	38	38	38	38	22	22	26	26	38	38	38	38	38	32	32
26	26	26	26	32	32	22	22	32	32	32	32	22	22	26	26	32	32	32	32	32	32	32
26	26	26	26	29	29	20	20	29	29	29	29	20	20	26	26	29	29	29	29	29	29	29
23	23	23	23	23	23	17	17	23	23	23	23	17	17	23	23	23	23	23	23	23	23	23
20	20	20	20	20	20	16	16	20	20	20	20	16	16	20	20	20	20	20	20	20	20	20
30	30	30	30	48	54	28	28	48	48	48	48	28	28	30	30	48	54	54	48	48	38	38
30	30	30	30	48	54	48	48	48	48	48	48	28	28	30	30	48	54	54	48	48	38	38
30	30	30	30	48	54	48	48	48	48	48	48	23	23	30	30	48	54	54	48	48	38	38
30	30	23	23	48	54	48	48	48	48	48	48	23	23	30	30	48	54	54	48	48	38	38
25	25	20	20	43	45	43	43	43	43	43	43	20	20	25	25	43	45	45	43	43	37	37
25	25	19	19	39	43	39	39	39	39	39	39	19	19	25	25	39	43	43	39	39	33	33
30	30	23	23	48	53	48	48	48	48	48	48	23	23	30	30	48	53	53	48	48	37	37
30	30	23	23	48	53	23	23	48	48	48	48	23	23	30	30	48	53	53	48	48	37	37
31	31	25	25	51	66	25	25	51	51	51	51	25	25	31	31	51	66	66	51	51	41	41
27	27	23	23	40	45	23	23	40	40	40	40	23	23	27	27	40	45	45	40	40	32	32
31	31	25	25	51	66	25	25	51	51	51	51	25	25	31	31	51	66	66	51	51	41	41
27	27	20	20	51	55	20	20	51	51	51	51	20	20	27	27	51	Spe'l rate.	27	51	51	41	41
27	27	20	20	40	50	20	20	40	40	40	40	20	20	27	27	40	do.	27	40	40	35	35
27	27	20	20	40	45	20	20	40	40	40	40	20	20	27	27	40	do.	27	40	40	35	35
26	26	18	18	36	44	18	18	36	36	36	36	18	18	26	26	36	do.	26	36	36	31	31
26	26	18	18	36	38	18	18	36	36	36	36	18	18	26	26	36	do.	26	36	36	28	28
26	26	18	18	35	35	18	18	35	35	35	35	18	18	26	26	35	do.	26	35	35	28	28
25	25	18	18	33	33	18	18	33	33	33	33	18	18	25	25	33	do.	25	33	33	25	25
22	22	18	18	29	29	18	18	29	29	29	29	18	18	22	22	29	do.	22	29	29	22	22
27	27	20	20	40	45	20	20	40	40	40	40	20	20	27	27	40	do.	27	40	40	35	35
27	27	18	18	35	40	18	18	35	35	35	35	18	18	27	27	35	do.	27	35	35	30	30
25	25	18	18	35	40	18	18	35	35	35	35	18	18	25	25	35	do.	25	35	35	30	30
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	do.	25	40	40	35	35
25	25	18	18	35	40	18	18	35	35	35	35	18	18	25	25	35	do.	25	35	35	30	30
28	28	23	23	44	53	23	23	44	44	44	44	23	23	28	28	44	do.	28	44	44	35	35
25	25	20	20	44	53	20	20	44	44	44	44	20	20	25	25	44	do.	25	44	44	35	35
25	25	18	18	35	40	18	18	35	35	35	35	18	18	25	25	35	do.	25	35	35	30	30
16	16	16	16	23	23	16	16	23	23	23	23	16	16	16	16	23	do.	16	23	23	19	19
18	18	14	14	25	35	14	14	25	25	25	25	14	14	18	18	25	do.	18	25	25	22	22
20	20	15	15	25	35	15	15	25	25	25	25	15	15	20	20	25	do.	20	25	25	23	23
24	24	16	16	32	32	16	16	32	32	32	32	16	16	24	24	32	do.	24	32	32	28	28
18	18	14	14	23	23	14	14	23	23	23	23	14	14	18								

TABLE 36.—RATES OF FREIGHT, ALL RAIL, FROM
DISTANCE VIA SHORTEST ROUTE.—From New York, 444 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.		
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Castile and fancy.		Com-mon.		Less than carloads.	Carloads.		Less than carloads.	Carloads.	
											Less than carloads.	Carloads.	Less than carloads.	Carloads.						
1876—Jan.	10.....	36	36	36	36	36	36	36	36	16	16	32	32	24	24	38	38	36	16	16
	June 3.....	36	36	36	36	36	36	36	36	16	16	32	32	20	20	28	28	36	16	16
	June 12.....	22	22	22	22	22	22	22	22	14	14	22	22	14	14	22	22	22	14	14
	Dec. 18.....	36	36	36	36	36	36	36	36	18	18	32	32	23	23	27	27	36	18	18
1877—Mar.	12.....	41	41	41	41	41	41	41	41	18	18	36	36	27	27	32	32	41	18	18
	Apr. 7.....	42	42	42	42	42	42	42	42	19	19	39	39	27	27	34	34	42	19	19
	Oct. 8.....	42	42	42	42	42	42	22	22	22	22	39	39	22	22	22	22	42	22	22
	22.....	54	54	54	54	54	54	24	24	24	24	44	44	24	24	24	24	54	24	24
	Dec. 10.....	54	54	54	54	54	54	24	24	24	24	38	38	24	24	24	24	54	24	24
1878—Feb.	15.....	37	37	37	37	37	37	21	21	21	21	29	29	21	21	21	21	37	21	21
1879—Jan.	1.....	37	37	37	37	37	37	21	21	21	21	29	29	21	21	21	21	37	21	21
1880—Jan.	1.....	37	37	37	37	37	37	21	21	21	21	29	29	21	21	21	21	37	21	21
1881—Aug.	6.....	30	30	30	30	30	30	13	13	13	13	21	21	13	13	13	13	30	13	13
	Nov. 12.....	37	37	37	37	37	37	17	17	17	17	30	30	17	17	17	17	37	17	17
1882—Jan.	24.....	37	37	37	37	37	37	17	17	17	17	30	30	17	17	17	17	37	17	17
	June 28.....	33	33	33	33	33	33	16	16	16	16	28	28	16	16	16	16	33	16	16
	July 1.....	33	33	33	33	33	33	16	16	16	16	28	28	16	16	16	16	33	12	12
	Nov. 1.....	37	37	37	37	37	37	18	18	18	18	29	29	18	18	18	18	37	18	18
1883—June	23.....	37	37	37	37	37	37	18	18	18	18	29	29	18	18	18	18	37	13	13
1884—Jan.	1.....	37	37	37	37	37	37	18	18	18	18	29	29	18	18	18	18	37	13	13
1885—Jan.	26.....	21	21	21	21	21	21	13	13	13	13	16	16	13	13	13	13	21	10	10
	June 1.....	20	20	20	20	20	20	11	11	11	11	16	16	11	11	11	11	20	9	9
	Oct. 1.....	29	29	29	29	29	29	13	13	13	13	24	24	13	13	13	13	29	10	10
	Nov. 18.....	37	37	37	37	37	37	18	18	18	18	29	29	18	18	18	18	37	13	13
1886—Jan.	21.....	37	37	37	37	37	37	18	18	18	18	29	29	18	18	18	18	37	13	13
1887—Apr.	1.....	39	39	39	39	33	28	16	19	13	13	33	33	19	16	16	13	39	19	13
	July 15.....	39	39	39	39	33	28	16	19	13	13	33	33	19	16	16	13	39	19	13
1888—Jan.	9.....	39	39	39	39	33	28	18	21	14½	14½	33	33	21	18	21	14½	39	21	14½
	Mar. 5.....	39	39	39	39	33	28	16	19	13	13	33	33	19	16	19	13	39	19	13
	Nov. 14.....	24	24	24	24	19	19	13	16	10	10	19	19	16	13	16	10	24	16	10
	Dec. 17.....	39	39	39	39	33	28	16	19	13	13	33	33	19	16	19	13	39	19	13
1891—Apr.	9.....	39	39	39	39	33	16	13	19	13	13	33	33	19	13	19	13	39	19	13
	June 20.....	39	39	39	39	33	16	13	19	13	13	19	13	19	13	19	13	39	19	13

PHILADELPHIA, PA., TO PITTSBURG, PA.—Continued.

Boston, 657 miles; Philadelphia, 354 miles; Baltimore, 333 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molas- ses.		Rice.		Groceries.	Drugs.	Crock- ery and earthen- ware.		Bag- ging.		Leather.		Lead.		Nails.		Hardware.	Agri- cultural imple- ments.		Machin- ery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
24	24	16	16	32	32	16	16	32	32	32	32	16	16	24	24	32	Sp'l rate.	24	32	32	28	28
20	20	16	16	32	32	16	16	32	32	32	32	16	16	20	20	32	.do.	20	32	32	28	28
14	14	14	14	22	22	14	14	22	22	22	22	14	14	14	14	22	.do.	14	22	22	22	22
23	23	18	18	32	32	18	18	32	32	32	32	18	18	23	23	32	.do.	23	32	32	27	27
27	27	18	18	36	36	18	18	36	36	36	36	18	18	27	27	36	.do.	27	36	36	32	32
27	27	19	19	39	39	19	19	39	39	39	39	19	19	27	27	39	.do.	27	39	39	34	34
22	22	22	22	39	39	22	22	22	22	39	39	22	22	22	22	....	.do.	22	39	22	22	22
24	24	24	24	44	44	24	24	24	24	44	44	24	24	24	24	44	.do.	24	44	24	24	24
24	24	24	24	38	38	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
13	13	13	13	21	21	13	13	13	13	21	21	13	13	13	13	21	.do.	13	21	13	13	13
17	17	17	17	30	30	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
17	17	17	17	30	30	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
16	16	16	16	28	28	16	16	16	16	28	28	16	16	16	16	28	.do.	16	28	16	16	16
12	12	16	16	28	28	16	16	16	16	28	28	16	16	16	16	28	.do.	16	28	16	16	16
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
13	13	13	13	16	16	13	13	13	13	16	16	13	13	13	13	16	.do.	13	16	13	13	13
11	11	11	11	16	16	11	11	11	11	16	16	11	11	11	11	16	.do.	11	16	11	11	11
13	13	13	13	24	24	13	13	13	13	24	24	13	13	13	13	24	.do.	13	24	13	13	13
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
19	16	19	19	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
21	18	21	14½	33	33	21	18	28	21	28	21	21	14½	21	18	33	28	18	21	18	28	18
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
16	13	16	10	19	19	16	13	19	16	19	16	16	10	16	13	19	19	13	16	13	19	13
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	16	13	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	16	13	16	33	28	16	19	16	28	16

RATES FROM THE SEABOARD VIA RAIL AND LAKE ROUTES.

The season of navigation upon the Great Lakes usually extends from April 1 to November 30 of each year. During this period from 17 to 20 per cent of the traffic from the seaboard to points beyond the western termini of the trunk lines is transported by the routes operating via the lakes. Such traffic is carried by the rail lines to Ogdensburg and Buffalo, N. Y., and Erie, Pa., thence via the lakes to Toledo, Detroit, Milwaukee, Chicago, and Duluth; at the latter points connection is again made with rail carriers, thus forming through routes to all principal competitive points in the West, Southwest, and Northwest.

Under long existing arrangements the rates via the rail-and-lake routes have been lower than those of the all-rail routes. The basis upon which these relations were established is not known for the entire period under consideration. Inferior facilities and longer time have been the principal disadvantages of the lake routes, in recognition of which the differential system of rates has been applied. With these rates, as in the case of the all-rail rates, New York to Chicago are the standard points on which tariffs are constructed. The differences existing in the all-rail and lake-and-rail rates between New York and Chicago represent the difference between the rates of these respective routes from other seaboard points to the West generally. These differences for several years have been as follows:

TABLE 37.—WEST BOUND RAIL AND LAKE RATES, NEW YORK TO CHICAGO.

Year.		Classes (in cents per 100 pounds).					
		1.	2.	3.	4.	5.	6.
1867	{ All rail	202	170	138	86	-----	-----
	{ Lake route	118	100	85	57	-----	-----
1868	{ All rail	188	160	127	82	-----	-----
	{ Lake route	126	106	91	60	-----	-----
1872	{ All rail	125	110	85	65	50	-----
	{ Lake route	87	77	60	46	35	-----
1893	{ All rail	75	65	50	35	30	25
	{ Lake route	54	47	37	27	23	20

The classes, it will be seen, correspond to those of the Official classification, and classified traffic via the lake routes has been taken for the years indicated under the classifications applying from the seaboard which were superseded by the Official.

The foregoing shows very large reductions, especially in the rates of the lower classes; articles formerly taken at fourth and fifth classes, at the rates of 45 and 35 cents, respectively, are now found in the three lower classes, namely, fourth, fifth, and sixth, at rates of 27, 23, and 20 cents per 100 pounds. It should also be remembered that the changes and reductions in the freight classifications have also operated to reduce the rates carried via the lake routes. The successive changes since 1867, so far as it has been possible to obtain them, are shown in tables to follow. Many of the articles covered by the classes have been and are still, from time to time, carried at commodity rates independently of the classification. In such instances the rates are invariably lower than the rates these articles would receive under the classifications.

TABLE 38.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM NEW YORK TO CHICAGO, VIA LAKE AND RAIL LINES, FROM MAY 6, 1867, GOVERNED BY OFFICIAL CLASSIFICATION.

	Classes (in cents per 100 pounds).						
	1.	2.	3.	4.	5.	6.	Special.
1867—May 6.....	118	100	85	57	.....	.....	.....
Nov. 5.....	127	106	87	58	.....	.....	.....
1868—Apr. 8.....	126	106	91	60	.....	.....	.....
June 4.....	117	100	86	57	.....	.....	.....
June 9.....	117	100	85	57	.....	.....	.....
Aug. 10.....	94	80	76	57	.....	.....	.....
Sept. 1.....	117	100	85	57	.....	.....	38
1869—Apr. 16.....	100	100	85	57	.....	.....	38
July 1.....	117	100	85	57	.....	.....	38
Nov. 1.....	100	90	70	57	.....	.....	35
1870—Apr. 11.....	106	91	70	57	.....	.....	38
1872—Apr. 27.....	87	77	60	46	.....	.....	35
Aug. 1.....	51	48	40	31	.....	.....	24
Oct. 14.....	87	77	60	46	.....	.....	35
Oct. 25.....	87	77	60	45	.....	.....	35
1873—Apr. 14.....	70	63	53	42	.....	.....	32
1877—Oct. 22.....	70	63	53	31	.....	.....	.....
1878—May 20.....	51	41	34	27	.....	.....	.....
Oct. 24.....	54	44	37	30	.....	.....	.....
1879—Apr. 28.....	54	44	37	30	.....	.....	.....
1880—Apr. 2.....	54	44	37	30	.....	.....	.....
1881—May 2.....	54	44	37	30	.....	.....	.....
1882—July 1.....	44	37	30	23	20	.....	.....
Nov. 1.....	54	44	34	27	.....	.....	.....
1883—Apr. 25.....	54	44	34	27	.....	.....	.....
June 22.....	54	44	34	27	.....	.....	20
1884—Apr. 21.....	54	44	34	27	.....	.....	20
1885—Apr. 27.....	37	30	23	20	15	.....	.....
June 1.....	30	23	20	15	13	.....	.....
Oct. 5.....	44	37	30	20	17	.....	.....
Nov. 18.....	54	44	34	27	20	.....	.....
1886—Apr. 12.....	54	44	34	27	20	.....	.....
1887—Apr. 5.....	54	47	37	27	23	20	.....
1888—Apr. 6.....	54	47	37	27	23	20	.....
May 14.....	44	39	31	23	19	16	.....
Oct. 13.....	51	45	35	24	20	17	.....
1889—Apr. 8.....	54	47	37	27	23	20	.....
1890—Apr. 7.....	54	47	37	27	23	20	.....
1891—Apr. 15.....	54	47	37	27	23	20	.....
1892—Apr. 18.....	54	47	37	27	23	20	.....

By the standard lines the same rates apply from Boston and adjacent territory. From Philadelphia and Baltimore somewhat lower rates are made, and certain routes from New York and Boston are allowed differential rates, which are lower than the lowest rates of the standard lake routes. By such differential lines the rates are upon an extremely low basis, as will be seen by reference to the following rates of a differential line from Boston to Chicago:

TABLE 39.—RATES VIA DIFFERENTIAL LINE.

Class.	Cents per 100 pounds.					
	1887.	1888.	1889.	1890.	1891.	1892.
1.....	44	27	44	44	36	41
2.....	39	24	39	39	31	36
3.....	31	19	31	31	24	29
4.....	23	15	23	23	18	21
5.....	19	14	20	20	15	19
6.....	16	15	18	18	15	17
Boots and shoes.....	.....	30	.....	.....	25	30
Dry goods.....	.....	30	.....	.....	22	25
Binder's twine.....	.....	17½	15	.....	13	15
Caustic soda and soda ash.....	.....	13	13	13	12	14
Sugar.....	.....	13	.....	13	13	16
Canned goods.....	.....	.....	.....	.....	12	.....
Jute butts.....	.....	.....	.....	.....	.....	15
Flax.....	.....	.....	.....	.....	.....	15

The foregoing are representative of the very low basis that would be charged to other Western points the rates to which are made relatively higher than the Chicago rates.

RATES VIA THE CANAL AND LAKE ROUTES.

Another through route largely patronized by the public is that from New York via the Erie Canal to Buffalo, thence via the lake lines to Toledo, Detroit, Chicago, Milwaukee, and the West. The scale of rates in effect during the last season by this route to Chicago was as follows:

TABLE 40.—LAKE-CANAL RATES NEW YORK TO CHICAGO, 1892.

Classes.	Cents per 100 pounds.
1	30
2	25
3	20
4	18
5	16
6	14

From Boston certain carriers operate through lines, connecting with the Erie Canal at points in eastern New York State, thence to Buffalo via canal, in connection with lake lines to the West. By this line the rates of the past season from Boston to Chicago were:

TABLE 41.—LAKE AND CANAL RATES FROM BOSTON.

Classes.	Cents per 100 pounds.
1	40
2	35
3	29
4	21
5	18
6	17

The traffic seeking these routes is mainly composed of heavy or bulky articles, usually found in the lower classes of the classification or carried at commodity rates. There is no data at this time available to show the decline of the rates by these routes.

Nearly all of the points covered by the foregoing statements of commodity rates may be reached by the lake and rail and canal routes, which are open to the public, during the summer months of each year and at a scale of charges much lower than the rates of the all-rail routes as given in the tables referred to.

CLASSIFIED RATES VIA ALL-RAIL ROUTES CHICAGO TO NEW YORK.

It has been shown with respect to westward rates from the seaboard that New York and Chicago are taken as the standard points or basis upon which rates to other Western points are computed. The same general plan is observed with regard to the rates eastward from Chicago and other Western points to the Atlantic seaboard. The present rates

by the standard routes from Chicago to the various Eastern cities are as follows:

TABLE 42.—EAST BOUND RATES—ALL-RAIL.

Chicago to—	Classes (in cents per 100 pounds).					
	1.	2.	3.	4.	5.	6.
Boston.....	82	71	55	39	33	27
New York.....	75	65	50	35	30	25
Philadelphia.....	73	63	48	33	28	23
Baltimore.....	72	62	47	32	27	22

The Chesapeake and Ohio route, owing to its longer distance, charges somewhat lower rates.

With the tables presenting the westward rates from New York to Chicago it was fully explained how the charges to other western points are made by the percentage basis, and also that when the rates New York to Chicago are changed, similar changes are made from the seaboard to western points generally. The same plan is applied when making rates from Chicago and other western points to the seaboard cities and points in the vicinity thereof, the rates to which are made with regard to the seaboard rates. When a change is made in the Chicago rates, all other points are similarly affected. Therefore a statement of the changes in the rates from Chicago to New York will serve to illustrate the changes which have taken place from other western points to the seaboard cities. Such a table here follows, showing the class rates from 1871 up to the present time.

During the period covered there have been several changes in the character of the classification which applied to these rates. Prior to 1880 it is shown that the traffic was confined to 4 classes; from 1880 to 1887 the traffic was distributed among eleven or twelve classes, and subsequent to 1887 the classification governing provided for six classes only. Since 1887 the rates for all classes are shown to be on a considerably lower basis than prior to that year. This result was brought about by the adjustment at that time, by which the rates, both eastward and westward, were made alike, and further by the adoption of the Official classification for eastward traffic.

It is again mentioned that similar reductions were made from all points north of the Ohio, east of the Mississippi, and west of Buffalo and Pittsburg, to the principal seaboard points, and, further, that traffic originating west of the territory indicated has also received the benefit of these lower rates.

TABLE 43.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO, ILL., TO NEW YORK, N. Y., FROM OCTOBER 22, 1871.

Date.	Rates in cents per 100 pounds.											
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1871—Oct. 22.....	160	125	85	65	.....	.....	.....	.....	.....	.....	.....	.....
1872—Mar. 26.....	160	125	85	60	.....	.....	.....	.....	.....	.....	.....	.....
May 1.....	160	125	85	50	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 26.....	160	125	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 2.....	160	125	85	50	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 9.....	160	125	85	60	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 16.....	160	125	85	60	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 14.....	160	125	85	65	.....	.....	.....	.....	.....	.....	.....	.....
1873—Apr. 14.....	160	125	85	60	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 29.....	160	125	85	50	.....	.....	.....	.....	.....	.....	.....	.....
May 20.....	160	125	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 5.....	160	125	85	50	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 15.....	160	125	85	55	.....	.....	.....	.....	.....	.....	.....	.....
Dec. 8.....	160	125	85	60	.....	.....	.....	.....	.....	.....	.....	.....
1874—Feb. 3.....	160	125	85	55	.....	.....	.....	.....	.....	.....	.....	.....
Feb. 16.....	160	125	85	50	.....	.....	.....	.....	.....	.....	.....	.....
Mar. 9.....	160	125	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Mar. 18.....	160	125	85	40	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 20.....	150	110	70	40	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 27.....	150	110	80	40	.....	.....	.....	.....	.....	.....	.....	.....
May 6.....	150	110	80	45	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 1.....	150	110	80	40	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 24.....	150	110	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Dec. 1.....	150	110	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Dec. 11.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
1875—Oct. 1.....	150	110	85	35	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 11.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 12.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
Dec. 1.....	150	110	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Dec. 20.....	150	110	85	50	.....	.....	.....	.....	.....	.....	.....	.....
1876—Oct. 1.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
Mar. 1.....	150	110	85	50	.....	.....	.....	.....	.....	.....	.....	.....
Mar. 10.....	150	110	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 1.....	150	110	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 17.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
Dec. 18.....	150	110	85	35	.....	.....	.....	.....	.....	.....	.....	.....
1877—Jan. 1.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
Jan. 15.....	150	110	85	45	.....	.....	.....	.....	.....	.....	.....	.....
Feb. 12.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 9.....	150	110	85	35	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 30.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
July 2.....	150	110	85	35	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 17.....	150	110	85	40	.....	.....	.....	.....	.....	.....	.....	.....
1878—Feb. 11.....	150	110	85	30	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 1.....	120	90	70	30	.....	.....	.....	.....	.....	.....	.....	.....
May 17.....	120	90	70	25	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 5.....	120	90	70	30	.....	.....	.....	.....	.....	.....	.....	.....
Sept. 2.....	120	90	70	35	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 25.....	120	90	70	40	.....	.....	.....	.....	.....	.....	.....	.....
1879—Mar. 24.....	120	90	70	25	.....	.....	.....	.....	.....	.....	.....	.....
June 9.....	120	90	70	20	.....	.....	.....	.....	.....	.....	.....	.....
June 23.....	120	90	70	25	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 4.....	120	90	70	30	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 25.....	90	70	50	35	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 1.....	120	90	70	35	.....	.....	.....	.....	.....	.....	.....	.....
Oct. 13.....	120	90	70	40	.....	.....	.....	.....	.....	.....	.....	.....
Nov. 10.....	120	90	70	45	.....	.....	.....	.....	.....	.....	.....	.....
1880—Mar. 8 (new classification).....	120	90	70	60	50	45	45	35	35	33	50	.....
Mar. 8.....	120	90	70	60	50	45	45	35	35	30	50	.....
Apr. 1.....	120	90	70	60	50	45	35	30	35	30	40	.....
Apr. 14.....	120	90	70	60	50	45	35	30	35	35	40	.....
Nov. 1.....	120	90	70	60	50	45	40	35	35	35	45	.....
Nov. 22.....	120	90	70	60	50	45	40	35	45	35	45	.....
1881—Mar. 7.....	120	90	70	60	50	45	35	30	40	30	45	.....
Apr. 1.....	120	90	70	60	50	45	35	25	40	30	45	.....
Apr. 11.....	120	90	70	60	50	45	35	30	40	30	45	.....
Apr. 18.....	120	90	70	60	50	45	35	30	40	30	45	.....
May 9.....	100	85	70	60	50	45	35	30	40	30	45	.....
June 8.....	100	85	70	60	50	45	30	25	35	30	45	.....
June 15.....	100	85	70	60	50	45	25	20	30	30	45	.....
1882—Jan. 23.....	100	85	70	60	50	45	25	20	30	35	45	.....
Mar. 13.....	100	85	70	60	50	45	30	25	35	30	45	.....
Nov. 1.....	100	85	70	60	50	45	30	25	35	35	45	.....
Dec. 1.....	100	85	70	60	50	45	35	30	40	35	45	.....
1883—Apr. 1.....	100	85	70	60	50	45	35	30	40	30	45	.....
Apr. 19.....	100	85	70	60	50	45	35	25	40	30	45	.....
Apr. 23.....	100	85	70	60	50	45	30	25	35	30	45	.....
Nov. 1.....	100	85	70	60	50	45	30	25	35	35	45	.....
Nov. 26.....	100	85	70	60	50	45	35	30	40	35	45	.....
1884—Jan. 5.....	100	85	70	60	50	45	25	20	30	35	45	.....

TABLE 43.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO, ILL., ETC.—Continued.

Date.	Rates in cents per 100 pounds.											
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1884—Jan. 14.....	100	85	70	60	50	45	35	30	40	35	45	....
Mar. 14.....	100	85	70	60	50	45	25	20	30	35	45	....
Mar. 21.....	100	85	70	60	50	45	20	15	25	35	45	....
Apr. 1.....	100	85	70	60	50	45	20	15	25	30	45	....
June 24.....	100	85	70	60	50	45	25	25	30	30	45	....
July 21.....	100	85	70	60	50	45	30	25	35	30	45	....
Nov. 1.....	100	85	70	60	50	45	30	25	35	35	....	....
Dec. 15.....	100	85	70	60	50	45	30	25	35	32	....	....
1885—Apr. 6.....	100	85	70	60	50	45	40	35	30	25	30	25
Nov. 1.....	100	85	70	60	50	45	40	35	30	25	35	25
Nov. 23.....	100	85	70	60	50	45	40	35	30	25	35	30
Dec. 21.....	100	85	70	60	50	45	40	35	30	25	35	30
1886—Jan. 15.....	100	85	70	60	50	45	40	35	30	25	30	30
Apr. 1.....	100	85	70	60	50	45	40	35	30	25	25	30
Nov. 1.....	100	85	70	60	50	45	40	35	30	25	30	30
Dec. 20.....	100	85	70	60	50	45	40	35	30	25	30	35
Dec. 27.....	100	85	70	60	50	45	40	35	35	30	30	35
1887—Apr. 1 (new Official classification)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Apr. 1.....	75	65	50	35	30	25	.....	.....	.....	.....	.....	.....
1888—Jan. 9.....	75	65	50	38½	33	27½	.....	.....	.....	.....	.....	.....
Mar. 5.....	75	65	50	35	30	25	.....	.....	.....	.....	.....	.....
Nov. 12.....	50	40	35	30	25	20	.....	.....	.....	.....	.....	.....
Dec. 17.....	75	65	50	35	30	25	.....	.....	.....	.....	.....	.....
1892—May 9.....	75	65	50	35	30	20	.....	.....	.....	.....	.....	.....
June 13.....	75	65	50	35	30	25	.....	.....	.....	.....	.....	.....

Data have been collected showing the tonnage movement of the classified traffic via the all-rail routes Chicago to New York taken under these rates, which is shown to have largely increased. A statement of such tonnage is below given, from which may be seen the volume of traffic affected by these rates. The statement covers only traffic originating at or passing through Chicago, and does not embrace the numerous other points east of the Mississippi River; the rates from which, as before explained, have been correspondingly reduced.

TABLE 44.—EAST BOUND TONNAGE.

	Tons.
1880.....	2,340,346
1881.....	2,871,100
1882.....	2,106,877
1883.....	2,257,703
1884.....	2,839,449
1885.....	3,187,023
1886.....	1,872,388
1887.....	2,210,043
1888.....	2,366,889
1889.....	2,462,664
1890.....	3,066,460
1891.....	2,556,624
1892.....	2,421,206

NOTE.—The foregoing does not include tonnage of livestock and dressed meats, for which see Table 54.

GRAIN RATES, ALL RAIL, CHICAGO TO NEW YORK.

The following table presents the changes which have taken place in the grain rates by the all-rail routes from Chicago to New York from 1864. The methods previously mentioned as to the manner of constructing rates from points other than Chicago to the seaboard apply also to this table, and the rates there shown may be accepted as representing the changes which have taken place from all competitive points east of the Mississippi River to the seaboard:

GRAIN RATES, ALL RAIL, CHICAGO TO NEW YORK.

TABLE 45.—RATES IN CENTS PER 100 POUNDS CHARGED UPON GRAIN, ALL RAIL, FROM CHICAGO, ILL., TO NEW YORK, N. Y., FROM MARCH 28, 1864.

Date.	Rate.	Date.	Rate.	Date.	Rate.	Date.	Rate.
1864—Mar. 28...	100	1867—Sept. 2...	75	1875—Dec. 1...	45	1884—Mar. 21...	15
Apr. 4...	90	Sept. 23...	85	1876—Mar. 7...	40	June 24...	20
Apr. 12...	80	1868—Sept. 1...	60	Apr. 13...	35	July 21...	25
Apr. 14...	75	Sept. 7...	65	Apr. 26...	22½	1885—Mar. 10...	20
July 11...	80	Sept. 14...	70	May 5...	20	Nov. 23...	25
July 22...	85	Dec. 7...	75	Dec. 18...	30	1886—Dec. 20...	30
July 28...	80	1869—Jan. 25...	70	1877—Jan. 2...	35	1887—Mar. 23...	25
Sept. 7...	90	Mar. 11...	50	Apr. 2...	30	1888—Jan. 8.....	27½
Sept. 10...	95	1870—Jan. 22...	55	Sept. 4...	35	Mar. 8.....	25
Nov. 12...	100	Mar. 4...	50	Oct. 17...	40	Oct. 10...	20
Nov. 16...	115	Mar. 22...	45	1878—Mar. 11...	30	Dec. 15...	25
Nov. 28...	125	May 23...	40	Apr. 1...	25	1889—July 13...	20
Dec. 13...	138	Aug. 29...	45	May 17...	20	Aug. 1:	
Dec. 24...	160	Aug. 31...	50	Aug. 5...	25	Wheat..	25
1865—Apr. 22...	100	Oct. 31...	55	Aug. 17...	30	Corn....	20
May 15...	70	Nov. 22...	60	Nov. 25...	35	1890—May 12:	
Sept. 6...	62½	1871—Mar. 4...	50	1879—Mar. 24...	20	Oats.....	22
Sept. 11...	70	Apr. 7...	45	June 9...	15	May 26:	
Sept. 27...	77½	June 26...	40	June 23...	22	Oats.....	20
Oct. 10...	85	July 10...	45	Aug. 4...	25	June 9;	
Oct. 17...	95	Aug. 11...	50	Aug. 25...	30	Grain,	
Oct. 27...	105	Sept. 21...	55	Oct. 13...	35	except	
Nov. 2...	115	Oct. 2...	60	Nov. 10...	40	corn,	
Nov. 7...	120	Oct. 25...	65	1880—Mar. 1...	35	andoats	22½
Nov. 9...	130	1872—Mar. 25...	60	Apr. 14...	30	1891—Nov. 24:	
1866—Jan. 9...	80	May 1...	50	Nov. 22...	35	Grain,	
Feb. 26...	70	Aug. 26...	45	1881—Apr. 1...	30	except	
May 11...	55	Sept. 2...	50	Apr. 11...	25	corn...	22½
June 7...	60	Sept. 9...	55	Apr. 18...	30	Dec. 29...	25
July 5...	65	Sept. 16...	60	June 8...	25	1892—May 9...	20
Sept. 18...	75	Oct. 14...	65	June 15...	15-20	June 13...	22½
Sept. 27...	85	1873—Apr. 14...	16	Sept. 26...	12½-20	Oct. 10...	25
Oct. 10...	90	May 20...	45	Oct. 10...	12½-15		
Oct. 15...	100	Sept. 5...	50	Nov. 1...	20		
Nov. 5...	105	Nov. 20...	55	Dec. 9...	12½-20		
Dec. 8...	90	Dec. 8...	60	1882—Mar. 13...	25		
1867—Feb. 7...	80	1874—Feb. 3...	55	Dec. 1...	30		
Mar. 4...	70	Apr. 15...	40	1883—Apr. 19...	25		
Mar. 22...	60	May 6...	45	Nov. 26...	30		
Apr. 15...	50	Dec. 11...	40	1884—Jan. 5...	20		
June 8...	75	1875—Oct. 1...	30	Jan. 14...	30		
June 21...	70	Oct. 12...	40	Mar. 14...	20		

GRAIN RATES VIA LAKE-AND-RAIL AND LAKE-AND-CANAL ROUTES, CHICAGO TO THE SEABOARD.

Through routes are formed by the lake lines running to Buffalo and there connecting with the rail carriers, and also with the Erie Canal. Via each of these routes a large traffic is carried, destined to the seaboard. The principal shipments are wheat, corn, and other grains. Large reductions have been made in the rates by these routes. Here following is given a statement showing the changes in the rates on wheat and corn from Chicago to New York from 1877, when forwarded by

routes operating via the lakes to Buffalo and thence via rail. A second table shows rates for a similar period on like commodities from Chicago to New York when taken by lake to Buffalo and thence via the canal.

These two tables are compiled from the reports of the Chicago Board of Trade, and are understood to cover the quotations of the prevailing rates for the period covered.

A third table, compiled from the tariffs of the Western Transit Company, a lake line operating from Chicago to Buffalo, which publishes through rates to the seaboard, shows changes in the rates on various grain articles from 1887. A comparison of the wheat rates for the seasons of 1887 and 1892 shows the former to have been 14 cents, while for the latter year it was 8 cents.

The fourth table following shows the average rates charged on wheat and corn when carried by canal from Buffalo to New York, for each month during the season of navigation, for the years 1856 and 1857 and from 1862, and also shows the highest rate during each year charged on wheat and the average for the season for the same commodity. The average season rate on wheat for the first year given upon the table is shown as 14.4 cents per bushel, while that for 1892 was 3.4 cents.

The rates from St. Louis to the seaboard are computed at 116 per cent of the rates from Chicago to New York. For the purpose of equalizing the rates via the various routes crossing the Mississippi River, it is agreed by the lines interested that the rates from St. Louis shall be applied at the other river crossings on such traffic as may originate at points west of the Mississippi River. Under this arrangement the rates upon such traffic to New York from Dubuque, Clinton, Rock Island, East Burlington, East Hannibal, and the other river crossings, are the same as from St. Louis. When changes occurred in the rates from Chicago, similar changes were made necessary from other western points on and east of the Mississippi River which are governed by the percentage basis. The rates upon grain and other traffic passing eastward via the Mississippi River points named would be correspondingly changed.

While a more extended reference might be made to the influences which operate to reduce the grain rates by the various routes from Chicago, this appears unnecessary, as the tables present a very full history of the reductions which have taken place.

TABLE 46.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT
THE OPENING OF THE SEASON

In effect during—	Rates in cents per bushel.														
	Wheat.														
	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	*1887	1888.	1889.	1890.	1891.
Apr.—First week...		12					11½								8½
Second week...		12				12½	12						9½	9½	8½
Third week...		11		17		12½	12						8½	9	8½
Fourth week...		10		17		10	12	12				10½	8½	8½	8½
Fifth week...						10½				12					
May—First week...	13	11	12½	16	15	10	11½	12		12		10½	8½	8½	8½
Second week...	13	10½	12	15½	15	10	10½	11	9½	12		10½	8½	8½	8½
Third week...	13	10	11½	15	14½	9½	10	10	9½	12		10½	8½	8½	8½
Fourth week...	12½	9	11½	12½	13½	9½	10	10	8½	12		10½	8½	8½	8½
Fifth week...			11½	15				10	8					8½	7½
June—First week...	13	8½	11	15½	11	9	10	10	7½	12		10½	8½	8½	7½
Second week...	13	9	10½	16	10½	9	10	10	7½	12		10½	8½	8½	7½
Third week...	13	9	10½	16	11	9	10½	10	7½	12		10½	8½	8½	7½
Fourth week...	13	9	9½	16	9½	9½	10	10	7½	12		10½	8½	8½	7½
Fifth week...	13	9					10½					10½	8½		
July—First week...	13	9	9	16	9½	9½	10	10	7½	12		10½	8½	8½	7½
Second week...	12	7½	8½	16	9	8½	9½	10	8½	12		10½	8	8½	7½
Third week...	12	7½	9	13½	8½	8½	9½	10	10½	12		10½	8½	8½	7½
Fourth week...	12	7½	9½	13½	7½	8½	10½	9	10½	12		10½	8	8½	7½
Fifth week...				12	7	8½			9½						
Aug.—First week...	12	7½	10	13	6½	10	11	9	10½	12		11	8	8½	8
Second week...	12	7½	11	14½	6½	10	11½	9	9½	12		11	8	8½	8½
Third week...	12½	8	11	13	7½	9½	11½	10	9½	12		11½	8½	8½	9½
Fourth week...	12½	9½	11	12	8	9½	12	10	9½	12		11½	8½	8½	9½
Fifth week...		11½	12					10					9	8½	9½
Sept.—First week...	13	12	12	14½	8½	9½	12½	12	7½	12		11½	9	8½	9½
Second week...	13	12½	12	12	8½	9½	12½	11½	7½	12		11½	9	8½	9½
Third week...	14	13	13	12	8½	10	12½	10	7½	12		12	9	8½	9½
Fourth week...	16	14	14	12	7½	10	12½	9	7½	12		12	9	8½	9½
Fifth week...	16					10½	11½					12			
Oct.—First week...	16	14	15	12	6½	10½	12½	9	7½	12		11½	9	8½	9½
Second week...	18	14½	15	12½	6	10	11½	9	7½	12		11½	9½	8½	9½
Third week...	18	14½	15	14	9½	10½	11	9	8½	12		11	9½	8½	8
Fourth week...	18	14	15½	14	9½	10½	11½	10	10½	12		11	9½	8½	8
Fifth week...				14	9½				10½						8
Nov.—First week...	18	14	17½	14	9½	11	11½	11	10½	12		11½	10½	8½	8½
Second week...	17	13½	19	14	9½	10½	11½	9	11½	12		11½	10½	8½	9
Third week...	17	13½	20	17	9½	11	11½	9	11½	12		11½	9½	8½	9½
Fourth week...	18	13½	19	17		10½	11½	9	12½	12		11	8½	8½	10
Fifth week...		14½	18½					9						8½	
Dec.—First week...	18½					10½									10

*No rates.

AND CORN FROM CHICAGO TO NEW YORK VIA LAKE AND RAIL ROUTES FROM
OF NAVIGATION IN 1877.

Rates in cents per bushel.														
Corn.														
1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	*1887.	1888.	1889.	1890.	1891.
	11½					11½								7½
	11½				11½	11½						8½	8½	7½
	10½		15		11½	11½						8	8	7½
	10		15		9½	11	11				10	8	7½	7½
					10				11½					
13	10	9	15	14	9½	10½	11		11½		9½	8	7½	7½
13	10	8½	14	14	9½	10	9	8½	11½		9½	7½	7½	7½
13	10	10½	12½	13½	9	9½	9	8½	11½		9½	7½	7½	7½
11	8½	10½	11½	12½	9	9½	9	7½	11½		9½	7½	7½	7½
		10	14				9	7					7½	6½
12	8½	10	13½	9½	9	9½	9	6½	11½		9½	7½	7	6½
12	8½	9½	13½	11½	9	9½	8½	6½	11½		9½	7½	7	6½
12	8½	9½	14½	10	9	9½	8½	6½	11½		9½	7½	7½	6½
12	8	8½	14½	8½	9½	9½	8½	6½	11½		9½	7½	7½	6½
12	8					9½					9½	7½		
12	8	8½	15	8½	9½	9½	8½	6½	11½		9½	7½	7½	6½
11	7	8	15	7½	8½	9	8½	7½	11½		9½	7½	7½	6½
11	7	8	13	7	8½	9	8½	9½	11½		10	7½	7½	6½
11	7	8½	13	6½	8	10	7	9½	11½		10	7½	7½	6½
			12	5½	8½			8½						
11	7	9	12½	5½	10	10½	7	9½	11½		10½	7½	7½	7
11	7½	10	14	5½	10	10½	8	8½	11½		10½	7½	7½	7½
11½	7½	10	14	6½	9½	10½	9	8½	11½		10½	7½	7½	8½
11½	8½	10	11	7½	9½	11½	9	8½	11½		11	7½	7½	8½
	11	11					9					8½	7½	8½
12	11	11	14	7½	9½	11½	11	6½	11½		11	8½	7½	8½
12	11½	11	11½	7½	9	11½	10	6½	11½		11	8½	7½	8½
13	12	12	11½	7½	9½	11½	9	6½	11½		11½	8½	7½	8½
15	13	12	11½	6½	9½	11½	8	6½	11½		11½	8½	7½	8½
15					9½	10½					11½			
16	13	14	11	5½	9½	11	7½	6½	11½		10½	8½	7½	8½
16	13½	14	11½	5	9½	10½	8	6½	11½		10½	8½	7½	8½
16	13½	14	12	8½	9½	10½	8	7½	11½		10½	8½	7½	7
16	13	14½	13	8½	10½	10½	8½	9½	11½		10½	8½	7½	7
			13	8½				9½						7
16	13	16½	13	8½	10½	10½	10	9½	11½		10½	9½	7½	8
16	12½	18	13	8½	10½	10½	8½	10½	11½		10½	9½	7½	8½
16	12½	18	14	9	10	10½	8½	10½	11½		10½	8½	7½	9
16	12½	17	16½		10	10½	8½	11½	11½		10½	7½	7½	9½
	13½	17½					8½						7½	
16					10									9½

*No rates.

TABLE 48—FREIGHT RATES IN CENTS PER BUSHEL AND THEIR EQUIVALENTS IN CENTS PER 100 POUNDS CHARGED FOR THE TRANSPORTATION OF GRAIN FROM CHICAGO TO NEW YORK, VIA LAKE TO BUFFALO, N. Y., AND THENCE VIA RAIL, DURING THE PERIOD COVERED BY THE RECORDS OF THE INTERSTATE COMMERCE COMMISSION.

Date.	Commodities (rates in cents).											
	Wheat.		Corn.		Rye.		Flaxseed.		Barley.		Oats.	
	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.
1887—Apr. 18..	14.125	23.542	13.125	23.438	13.125	23.438	13.125	23.438	11.5	23.958	8.5	26.563
Apr. 28..	13.125	21.875	12.125	21.652	12.125	21.652	12.125	21.652	10.5	21.875	8	25
Apr. 30..	12	20	11.2	20	11.2	20	11.2	20	10	20.833	8	25
Oct. 7..	12.75	21.25	12	21.429	12	21.429	12	21.429	11	22.917	8.5	26.563
Oct. 25..	13.5	22.5	12.5	22.321	12.5	22.321	12.5	22.321	11.5	23.958	9	28.125
Oct. 31..	13.75	22.917	12.75	22.768	12.75	22.768	12.75	22.768	11.75	24.479	9.25	28.906
Nov. 4..	13.5	22.5	12.5	22.321	12.5	22.321	12.5	22.321	11.5	23.958	9	28.125
Nov. 7..	12.25	20.417	11.5	20.536	11.5	20.536	11.5	20.536	10.5	21.875	8	25
Nov. 19..	12.75	21.25	12	21.429	12	21.429	12	21.429	11	22.917	8.5	26.563
1888—Apr. 20..	10.75	17.917	10	17.857	10	17.857	10	17.857	9	18.75	6.75	21.094
May 5..	10.5	17.5	9.75	17.411	9.75	17.411	9.75	17.411	8.75	18.229	6.5	20.313
May 17..	10.25	17.083	9.5	16.964	9.5	16.964	9.5	16.964	8.5	17.708	6.5	20.313
Aug. 1..	11	18.333	10.5	18.75	10.5	18.75	10.5	18.75	9.5	19.792	7.25	22.656
Aug. 14..	11.5	19.167	10.75	19.196	10.75	19.196	10.75	19.196	9.75	20.313	7.5	23.438
Aug. 22..	11.75	19.583	11	19.643	11	19.643	11	19.643	10	20.833	7.75	24.219
Sept. 10..	12	20	11.25	20.089	11.25	20.089	11.25	20.089	10.25	21.354	8.25	25.781
Oct. 5..	11.5	19.167	10.75	19.196	10.75	19.196	10.75	19.196	9.75	20.313	7.75	24.219
Oct. 20..	11	18.333	10.25	18.304	10.25	18.304	10.25	18.304	9.25	19.271	7.25	22.656
Nov. 1..	11.5	19.167	10.75	19.196	10.75	19.196	10.75	19.196	9.75	20.313	7.75	24.219
Nov. 22..	11	18.333	10.25	18.304	10.25	18.304	10.25	18.304	9.25	19.271	7.25	22.656
1889—Apr. 8..	9.25	15.417	8.75	15.625	8.75	15.625	9.25	16.518	8.75	18.229	6.25	19.531
Apr. 17..	8.5	14.167	8	14.286	8	14.286	8.5	15.179	8	16.667	5.5	17.188
May 13..	8.25	13.75	7.75	13.839	7.75	13.839	8.25	14.732	7.75	16.146	5.25	16.406
July 12..	8	13.333	7.5	13.395	7.5	13.393	8	14.286	7.5	15.625	5.25	16.406
July 22..	8.75	14.583	7.5	13.393	7.5	13.393	8.75	15.625	7.5	15.625	5.5	17.188
July 29..	8	13.333	7.25	12.946	7.25	12.946	8	14.286	7.25	15.104	5.25	16.406
Aug. 16..	8.25	13.75	7.5	13.393	7.5	13.393	8.25	14.732	7.5	15.625	5.5	17.188
Aug. 20..	8.5	14.167	7.75	13.839	7.75	13.839	8.5	15.179	7.75	16.146	5.5	17.188
Aug. 28..	9	15	8.25	14.732	8.25	14.732	9	16.071	8.25	17.188	6	18.75
Sept. 17..	9	15	8.25	14.732	8.25	14.732	9	16.071	8.25	17.188	6.375	19.922
Oct. 7..	9.5	15.833	8.5	15.179	8.5	15.179	9.5	16.964	8.5	17.708	6.5	20.313
Nov. 4..	10.5	17.5	9.5	16.964	9.5	16.964	10.5	18.75	9.5	19.792	7.5	23.438
Nov. 8..	9.5	15.833	8.5	15.179	8.5	15.179	9.5	16.964	8.5	17.708	6.5	20.313
Nov. 15..	8.75	14.583	7.75	13.839	7.75	13.839	8.75	15.625	7.75	16.146	6.5	20.313
1890—Apr. 10..	9.75	16.25	8.5	15.179	9	16.071	9.75	17.411	9	18.75	6.5	20.313
Apr. 15..	9	15	8	14.286	8.5	15.179	9	16.071	8.5	17.708	6	18.75
Apr. 19..	8.75	14.583	7.75	13.839	8.25	14.732	8.75	15.625	8.25	17.188	5.75	17.969
Apr. 28..	8.25	13.75	7.25	12.946	7.75	13.839	8.25	14.732	7.75	16.146	5.25	16.406
May 12..	8.25	13.75	7.25	12.946	7.75	13.839	8.25	14.732	7.75	16.146	5.25	16.406
June 2..	8.25	13.75	7	12.5	7.75	13.829	8.25	14.732	7.75	16.146	5.25	16.406
June 20..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.5	17.188
July 5..	8.75	14.583	7.5	13.393	8.25	14.732	8.75	15.625	8.25	17.188	5.75	17.969
July 16..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.25	16.406
Aug. 18..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.25	16.406
1891—May 26..	7.5	12.5	6.25	11.161	6.25	11.161	7.5	13.393	6.25	13.021	4.5	14.063
July 25..	8	13.333	7	12.5	7	12.5	8	14.286	7	14.583	4.75	14.844
Aug. 7..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.25	16.406
Aug. 11..	9	15	7.5	13.393	8	14.286	8.5	15.179	8	16.667	5.25	16.406
Aug. 12..	10	16.666	8.75	15.625	8.75	15.625	10	17.857	8.75	18.229	6.5	20.313
Aug. 14..	9.5	15.833	8.5	15.179	8.5	15.179	9.5	16.964	8.5	17.708	6.5	20.313
Oct. 10..	9	15	8	14.286	8	14.286	9	16.071	8	16.667	6	18.75
Oct. 14..	8	13.333	7	12.5	7	12.5	8	14.286	7	14.583	5.5	17.188
Nov. 6..	8.5	14.167	8	14.286	8	14.286	8.5	15.179	8	16.667	6	18.75
Nov. 12..	9	15	8.5	15.179	8.5	15.179	9	16.071	8.5	17.708	6	18.75
Nov. 16..	9.5	15.833	9	16.071	9	16.071	9.5	16.964	9	18.75	6	18.75
Nov. 20..	10	16.666	9.5	16.964	9.5	16.964	10	17.857	9.5	19.792	6.25	19.531
1892—Apr. 13..	8	13.333	7.5	13.393	7.5	13.393	8	14.286	7.5	15.625	5.5	17.188
May 9..	7	11.666	6.75	12.054	6.75	12.054	7	12.5	6.75	14.063	5	15.625
Sept. 24..	7.5	12.5	7	12.5	7	12.5	7	12.5	7	14.583	5	15.625
Oct. 10..	8	13.333	7.5	13.393	7.5	13.393	8	14.286	7.5	15.625	5.5	17.188

LAKE EQUIPMENT.

The following table is presented to show the increase in the number and capacity of boats operating on the Great Lakes. The table is arranged to show the character of each vessel and its tonnage capacity, comparison being made for the years 1886 and 1890. The principal fact brought out by this table is that steel propellers of greater capacity are rapidly taking the places of sailing vessels:

TABLE 49.—COMPARISON OF NUMBER AND NET TONNAGE OF ALL CLASSES OF BOATS COMPRISING THE FLOATING EQUIPMENT OF THE GREAT LAKES AND THE NUMBER AND TONNAGE OF EACH CLASS DURING 1886 AND 1890.

[Compiled from reports of Eleventh Census.]

Classification.	Vessels.				Net tonnage capacity.			
	Number.		Percentage.		Tons.		Percentage.	
	1886.	1890.	Increase.	Decrease.	1886.	1890.	Increase.	Decrease.
Total	1, 997	2, 055	2. 9	.....	634, 652	826, 360	30. 2	.....
A—Structure:								
Side-wheel steamers..	43	42	.....	2. 3	14, 150	16, 949	19. 8	.....
Propellers under 1,000 tons	335	431	25. 7	.....	177, 402	154, 232	.....	13. 1
Propellers between 1,000 and 1,500 tons.	72	122	69. 4	.....	86, 728	151, 611	74. 8	.....
Propellers over 1,500 tons.....	21	110	423. 8	.....	34, 868	188, 390	440. 3	.....
Tugs	466	448	.....	3. 9	11, 737	12, 520	6. 7	.....
Schooners.....	730	557	.....	23. 7	183, 792	158, 620	.....	13. 7
Barges.....	330	325	.....	1. 5	125, 975	144, 038	14. 3	.....
B—Material:								
Steel.....	6	68	1, 033. 3	.....	6, 459	99, 457	1, 439. 8	.....
Iron	35	39	11. 4	.....	22, 714	24, 673	8. 6	.....
Composite	2	13	550. 0	.....	63	13, 554	21, 414. 3	.....
Wood.....	1, 954	1, 935	.....	1. 0	605, 416	688, 676	13. 8	.....
C—Motive power:								
Steam vessels.....	937	1, 153	23. 1	.....	324, 885	523, 702	61. 2	.....
Sailing vessels.....	1, 060	902	.....	14. 9	309, 769	302, 658	.....	2. 3

TABLE 50.—RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND CORN FROM BUFFALO TO NEW YORK, VIA ERIE CANAL, DURING THE YEARS 1856 AND 1857.

Date.	Rates (in cents per bushel).		Date.	Rates (in cents per bushel).		Date.	Rates (in cents per bushel).	
	Wheat.	Corn.		Wheat.	Corn.		Wheat.	Corn.
1856—May 13...	18	15	1856—Sept. 16..	20	16	1857—July 15..	13	9½
May 20...	19	15½	Sept. 23..	21	16½	July 22..	15	11
May 27...	22	17½	Sept. 30..	22½	18	July 29..	14	11
June 3...	22	17½	Oct. 7..	22½	18	Aug. 5..	14	10½
June 10...	16½	13	Oct. 14..	23	18	Aug. 12..	14	10½
June 17...	17	13	Oct. 21..	23	18	Aug. 19..	14	10½
June 24...	18	14	Oct. 28..	23	18	Aug. 26..	13½	9
July 1...	18	14	Nov. 4..	23	18	Sept. 2..	13	9½
July 8...	18	14	Nov. 11..	21	16	Sept. 9..	15	12
July 15...	18	14	1857—May 13..	17½	14½	Sept. 16..	15	11
July 22...	18	14	May 20..	17½	14½	Sept. 23..	15	12
July 29...	17½	14	May 27..	17	12½	Sept. 30..	14	11
Aug. 5...	19	15	June 3..	17½	13½	Oct. 4..	18	12½
Aug. 12...	18	14	June 10..	17	11½	Oct. 7..	15	11
Aug. 19...	17	13	June 17..	15	11	Oct. 11..	16	.....
Aug. 26...	16	12	June 24..	13	10½	Oct. 14..	16	12
Sept. 2...	17	13	July 1..	12½	9½	Oct. 21..	18	16
Sept. 9...	19	15	July 8..	12½	10	Oct. 28..	16	13

TABLE 51.—THE AVERAGE RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND CORN VIA CANAL FROM BUFFALO TO NEW YORK, DURING EACH MONTH OF THE SEASON OF NAVIGATION, FROM 1862, AND ALSO THE HIGHEST AND AVERAGE RATE ON WHEAT DURING EACH SEASON.

Years.	Rates (in cents per bushel).															
	May.		June.		July.		August.		September.		October.		November.		Highest Wheat.	Season average, Wheat.
	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.		
1862.....	13.5	11.5	12.8	10.8	14.2	12.2	15.1	13.1	17.2	15.1	18.3	16.1	19.6	17.3	24½	14.4
1863.....	14.6	12.6	14.3	12.3	14.6	12.6	13.9	11.9	14.0	12.0	16.4	14.4	19.6	17.6	25	15.3
1864.....	16.8	14.8	18.1	16.2	19.0	16.9	21.3	18.8	18.4	16.3	18.7	16.2	18.9	16.4	22	18.7
1865.....	14.7	12.7	13.6	11.6	14.4	12.4	14.5	12.5	15.6	13.6	21.7	19.2	23.1	20.3	26	16.8
1866.....	13.6	11.6	16.6	14.3	17.8	14.8	15.7	13.3	17.5	14.6	17.7	14.8	19.6	16.3	23	16.9
1867.....	12.3	10.3	13.2	11.2	13.8	11.8	13.7	11.7	16.3	13.4	21.1	18.1	19.1	16.3	25	15.6
1868.....	14.5	11.8	13.5	11.0	13.7	11.2	14.1	11.6	16.2	13.6	18.0	15.3	19.2	16.2	24	15.6
1869.....	13.9	11.6	13.7	11.7	12.5	10.5	14.0	12.0	16	13.7	21.5	18.4	21.7	19.0	24	16.2
1870.....	11.5	10.7	10.8	9.6	10.9	9.5	9.4	9.2	10.8	10.0	13.3	11.9	11.9	11.5	16	11.2
1871.....	11.6	10.6	10.2	9.2	11.1	10.1	11.7	10.7	13.6	12.6	13.9	12.9	16.0	14.5	17	12.6
1872.....	12.8	11.8	12.1	11.0	11.5	10.5	12.0	11.0	12.5	11.3	14.2	12.6	15.0	13.9	18	13
1873.....	11.8	10.6	10.6	9.6	10.2	9.2	10.6	9.6	11.8	10.0	12.7	11.3	12.3	10.6	14	11.4
1874.....	11.8	10.8	11.3	10.3	9.5	8.6	9.0	8.0	9.5	8.6	9.5	8.5	9.7	8.7	12	10
1875.....	7.4	6.6	6.9	6.3	7.5	6.9	8.1	7.4	7.0	6.5	8.2	7.4	10.5	9.1	11	7.9
1876.....	6.7	5.8	6.2	5.4	5.9	5.4	5.8	5.3	6.2	5.6	8.3	7.5	7.6	5.5	10	6.6
1877.....	5.8	5.0	5.0	4.9	5.4	4.7	7.0	6.4	7.7	6.7	10.9	9.2	10.0	8.7	12	7.4
1878.....	5.8	5.2	4.7	4.1	4.3	3.8	5.2	4.6	8.0	7.1	8.0	7.0	5.8	5.2	8.5	6
1879.....	4.7	4.2	4.1	3.6	5.2	4.7	6.5	5.9	8.1	7.4	8.0	7.9	10.2	8.8	12	6.8
1880.....	6.9	5.5	6.9	6.4	6.0	5.4	5.9	5.4	5.9	5.5	6.7	6.0	8.8	7.5	9	6.5
1881.....	5.3	4.8	4.7	4.2	4.3	3.8	4.0	3.5	4.8	4.3	5.0	4.5	5.0	4.6	7	4.6
1882.....	4.9	4.5	4.3	3.9	4.4	4.0	5.4	4.9	5.8	5.3	6.8	6.2	6.1	5.5	8	5.4
1883.....	5.0	4.5	4.3	3.9	3.9	3.6	4.6	4.3	6.3	5.9	5.5	5.0	4.6	4.1	6.5	4.9
1884.....	3.8	3.4	3.4	3.1	3.6	3.2	4.2	3.8	4.7	4.2	5.0	4.4	4.7	4.2	5.5	4.2
1885.....	4.2	3.8	3.1	2.9	3.0	2.8	3.7	3.3	3.5	3.2	4.2	3.9	5.0	4.5	6	3.8
1886.....	5.7	5.1	3.8	3.4	4.0	3.6	5.4	4.8	6.0	5.5	5.5	5.0	4.8	4.5	6.5	5
1887.....	5.1	4.6	4.5	4.1	3.8	3.4	4.0	3.6	4.5	4.1	4.8	4.4	5.8	5.3	7	4.6
1888.....	3.4	3.1	2.5	2.3	2.5	2.3	4.1	3.8	3.9	3.6	3.7	3.4	3.5	3.2	4.5	3.4
1889.....	4.0	3.6	3.8	3.4	4.0	3.6	4.4	3.9	5.0	4.5	5.0	4.5	5.0	4.4	5	4.8
1890.....	3.9	3.5	3.8	3.4	3.6	3.2	3.8	3.4	3.9	3.5	4.0	3.6	3.5	3.1	4.2	3.8
1891.....	2.8	2.5	2.9	2.6	2.8	2.5	3.8	3.5	4.2	3.8	4.6	4.2	4.0	3.6	4½	3.5
1892.....	2.7	2.4	2.2	2.0	2.4	2.2	3.0	2.6	3.8	3.4	4.7	4.4	4.6	4.3	6	3.4

LIVE STOCK AND DRESSED MEATS TRAFFIC FROM CHICAGO.

Practically all the live stock and dressed meat traffic forwarded to the Atlantic seaboard may be said to originate at Chicago, so far as the purposes of the rates now to be referred to are concerned. The basis upon which the rates covering this traffic are constructed is similar to that explained for the previous tables covering what is called the "dead freight" traffic; the rates from other Western points east of the Mississippi River to the seaboard are made with regard to the rates from Chicago. In former years it was not invariably the custom to preserve the relation between such points; the roads from St. Louis and other Western points would make such rates as the interests of the business might require without regard to the rates from Chicago. St. Louis has been an important shipping point for traffic of this character, and it has been generally the custom to maintain the rate from St. Louis to the seaboard on these articles 5 cents higher than from Chicago. The present rates from Chicago to the Eastern cities are as follows:

TABLE 52.—EAST BOUND LIVE STOCK AND DRESSED MEATS RATES.

	Rates (in cents per 100 pounds) from Chicago to—			
	Boston.	Philadel- phia.	Balti- more.	New York.
Cattle.....	28	26	25	28
Hogs.....	30	28	27	30
Sheep.....	30	28	27	30
Horses and mules.....	60	58	57	60
Dressed beef.....	45	43	42	45
Dressed hogs, refrigerator cars.....	45	43	42	45
Dressed hogs, common cars.....	45	43	42	45

Here following is given a statement showing the rates on live stock and dressed meats from Chicago to New York, from 1872 to the present time. The differences shown in the above table for points other than New York may, for the purposes of comparison, be accepted as applying throughout the period covered by this table; and it may be also understood that the changes from Chicago were followed by similar changes from other points east of the Mississippi River from which this traffic is forwarded.

TABLE 53.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF LIVE STOCK AND DRESSED MEATS FROM CHICAGO TO NEW YORK VIA ALL RAIL LINES FROM MARCH 26, 1872.

Date.	Rates (in cents per 100 pounds.)						
	Cattle.	Hogs.	Sheep.	Horses and mules.	Dressed beef.	Dressed hogs, refriger- ator cars.	Dressed hogs, common cars.
1872—Mar. 26					90		
Nov. 20					95		
1874—Dec. 1					85		
1875—Nov. 2					70		
1876—Nov. 18					65		
1877—Apr. 30					85		
Sept. 4					70		
Oct. 22					75		
1878—Sept. 2					90		
1879—June 9	35	35	60	60	67½		
June 26	35	35	60	60	56		
Aug. 4	50	40	60	60	80		
Aug. 25	50	45	60	60	80		
Oct. 13	50	50	60	60	80		
Nov. 10	55	55	65	65	88		
1880—Mar. 1	55	50	65	65	88		
Apr. 14	55	40	65	65	88		
Sept. 20	55	35	65	65	88		
Nov. 1	55	40	65	65	88		
1881—Mar. 14	50	40	60	60	80		
Apr. 1	50	35	60	60	80		
May 9	25	35	60	60	40		
June 8	25	30	60	60	40		
June 15	25	25	60	60	40		
1882—Mar. 13	25	30	60	60	40		
Apr. 17	40	30	50	60	64		
Dec. 1	40	35	50	60	64		
1883—Apr. 23	40	30	50	60	64		
Nov. 26	40	35	50	60	64		
1884—Jan. 5	40	25	50	60	64		
Jan. 14	40	35	50	60	64		
Mar. 14	40	25	50	60	64		
Mar. 21	40	20	50	60	64		
May 5	30	20	40	60	48		
June 24	30	25	40	60	48		
July 21	30	30	40	60	48		
Sept. 1	20	30	40	60	32		
Dec. 8	40	30	50	60	70		
1885—Mar. 23	40	25	50	60	70		

TABLE 53.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF LIVE STOCK AND DRESSED MEATS FROM CHICAGO TO NEW YORK, ETC.—Continued.

Date.	Rates (in cents per 100 pounds.)						
	Cattle.	Hogs.	Sheep.	Horses and mules.	Dressed beef.	Dressed hogs, refrigerator cars.	Dressed hogs, common cars.
1885—May 3	30	25	40	60	52½	.....	.....
July 1	25	20	40	60	43½	.....	.....
July 13	25	25	40	60	43½	.....	.....
Nov. 23	25	30	40	60	43½	.....	.....
1886—Jan. 1	25	30	25	60	43	43½	35
Mar. 1	35	30	45	60	65	55	50
Dec. 20	35	35	45	60	65	55	50
1887—Apr. 22	35	35	40	60	65	65	60
June 4	35	30	40	60	65	65	60
Nov. 21	31½	30	36	60	58½	58½	54
Nov. 23	28½	30	32½	60	52½	52½	48½
Nov. 24	25½	30	29	60	47	47	43
Nov. 25	23	30	26	60	42½	42½	39
Nov. 26	20½	30	23½	60	38½	38½	35
Nov. 28	18½	30	21	60	34½	34½	31½
Nov. 29	16½	30	19	60	31	31	28½
Dec. 26	35	30	40	60	65	65	60
1888—May 14	25	30	25	60	65	65	60
June 18	16½	25	25	60	65	65	60
June 25	16½	25	25	60	40	40	40
June 26	16½	25	25	60	35	35	35
June 29	16½	25	25	60	30½	30½	30½
July 2	14½	25	25	60	26½	26½	26½
July 3	12½	25	25	60	23	23	23
July 5	11	20	25	60	20	20	20
July 6	9½	20	25	60	17½	17½	17½
July 7	8½	20	25	60	15½	15½	15½
July 9	7½	20	25	60	13½	13½	13½
July 10	6½	20	25	60	12	12	12
July 11	5½	20	25	60	10½	10½	10½
July 12	5½	20	25	60	9	9	9
July 13	5½	20	25	60	8	8	8
July 14	5½	18	25	60	7	7	7
Aug. 3	5½	18	25	60	22½	22½	22½
Aug. 20	14½	18	25	60	25	25	25
Aug. 25	10	18	25	60	25	25	25
Sept. 24	15	18	25	60	35	35	35
Oct. 15	15	25	25	60	35	35	35
Oct. 22	15	30	25	60	35	35	35
Nov. 7	15	25	25	60	35	35	35
Dec. 17	22½	30	30	60	50	50	45
1889—May 1	26	30	30	60	45	45	45
1890—May 26	26	25	30	60	45	45	45
June 16	22½	25	30	60	42	42	42
June 20	22½	25	30	60	39	39	39
June 26	21	25	30	60	36	36	36
June 30	19½	25	30	60	33	33	33
July 3	18	25	30	60	30	30	30
July 11	18	23	30	60	30	30	30
Nov. 24	26	30	30	60	45	45	45
1891—Apr. 20	28	30	30	60	45	45	45
1892—June 16	28	25	30	60	45	45	45
Oct. 10	28	30	30	60	45	45	45

From the above it is shown that following each period of reduction the rates were again advanced to a figure considered by the railroads as the normal rate. In 1882, 1883, and 1884 the normal rates were not higher than 40, 30, 50, 60, and 64 cents per 100 pounds on the respective commodities. The rates established in March, 1886, namely, 35, 30, 45, 60, and 65, were apparently deemed the maximum rates which could then be obtained. This basis continued until November, 1887, when the rates rapidly declined, and were again restored, in December, to the preceding basis. In May, 1888, certain reductions were made, which were followed in June and July by frequent and greater declines, when the following lowest open rates found were reached, namely, 5½, 18, 25, 60, and 7. Slight advances were made on different dates until December 17, when the following basis was adopted, 22½, 30, 30, 60, and 50. Further adjustment occurred on May 1, 1889, when the rates were changed to 26, 30, 30, 60, 45. These rates continued until June 16, 1890, over a year, without change, but the rates were again several times reduced until July 3, when the low basis of 18, 25, 30, 50, 30 was reached. Advances were made in November of the same year, and again in April, 1891, when the following rates were established, namely, 28, 30, 30, 60, 45, which have continued in effect up to the present time.

The changes in the cattle rates show that the normal or standard rates have been considerably reduced. The normal rate in 1885 was 40 cents, 1886 35 cents, and in 1891 and 1892 28 cents. No higher rate than 28 cents on cattle from Chicago to New York has been charged since May, 1888. Similar results are shown for the dressed beef rates; in 1885 the normal rate was 70 cents; 1886, 65 cents. This latter rate prevailed a part of 1887 and 1888, but the restoration which took place after the numerous reductions in 1888 gave the rate of 50 cents to dressed beef, which on May 1, 1889, was reduced to 45 cents. Further reductions were made in 1890, and the 45 cent rate was restored in the latter part of the same year, since which time it has not been higher.

The highest rates now applied to this traffic, when peace prevails between the competitive carriers, are on a much lower basis than were charged under similar conditions in former years.

The tonnage of live stock and dressed beef carried from Chicago and points west thereof to the Eastern cities and the Atlantic seaboard at the above rates is shown in the following table, covering from 1880 to and including 1892. From this table it is possible to estimate the enormous saving in revenue to the public by the reductions in the rates for this traffic.

TABLE 54—LIVE STOCK AND DRESSED MEATS TONNAGE FROM CHICAGO.

Year.	Tons.
1880	649,464
1881	720,923
1882	775,406
1883	847,793
1884	788,111
1885	848,020
1886	912,352
1887	1,047,273
1888	1,194,224
1889	1,498,226
1890	1,639,495
1891	1,569,396
1892	1,582,254

OIL RATES.

Here below is given a table showing the changes in the rates on crude petroleum and its products from the points in the oil region as indicated by the table to the seaboard points named, from 1877 to 1888.

TABLE 55.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CRUDE PETROLEUM AND ITS PRODUCTS FROM THE OIL REGIONS TO PHILADELPHIA, PA., BALTIMORE, MD., AND COMMUNIPAW, N. J., FROM DECEMBER 1, 1877.

Date.	Rates (in cents, per barrel).							
	Refinery products.				Crude.			
	From Pittsburg, Pa., Oil City, Pa., and Olean, N. Y., to—				From Olean, N. Y., Clarendon, Kane, and Warren, Pa. to—		From Pittsburg and Oil City districts to—	
	Philadelphia, Pa., and Baltimore, Md.		Communipaw, N. J.		Baltimore, Md., and Philadelphia, Pa.	Communipaw, N. J.	Baltimore, Md., and Philadelphia, Pa.	Communipaw, N. J.
	In tanks.	In barrels.	In tanks.	In barrels.				
1877—Dec. 1.....	175	175	190	190	100	115	125	140
1879—Jan. 23.....	45	45	50	50				
May 9.....					70	85		
June 2.....							95	110
June 23.....					25	30	50	55
1880—April 1.....	50	50	63	63	50	60	75	85
May 15.....	69½	69½	82½	82½	65	75	90	100
June 7.....	38	38	51	51	41	60	41	51
Aug. 10.....	50	50	60	60	50	50	50	60
Sept. 27.....					33	33	48	48
1881—Oct. 1.....	43	43	48	48				
1884—Feb. 1.....	45	45	52	52	40	45	50	55
1888—Sept. 13.....	45	58	52	66				

COAL RATES.

Here following are given three statements showing the rates on anthracite and bituminous coal from the principal regions on the Lehigh Valley and Pennsylvania railroads. The first table shows anthracite coal rates to tide-water and the successive changes therein from 1877 to the present time. The second table covers rates from the same regions westward to Buffalo for the same period. The third covers the changes in the bituminous coal rates from collieries in the Clearfield region on the Pennsylvania railroad to Jersey City, Philadelphia, and Baltimore.

TABLE 56.—THE AVERAGE FREIGHT RATES PER TON OF 2,240 POUNDS CHARGED FOR THE TRANSPORTATION OF ANTHRACITE COAL FROM COLLIERIES ON THE LEHIGH VALLEY RAILROAD IN THE LEHIGH, MAHANOEY, AND WYOMING REGIONS, TO PERTH AMBOY, FROM JUNE 7, 1875.

Date.	From Lehigh and Mahanoy regions.			From Wyoming region.			Date.	From Lehigh and Mahanoy regions.			From Wyoming region.		
	Prepared sizes.	Pea and buck-wheat.	Culm.	Prepared sizes.	Pea and buck-wheat.	Culm.		Prepared sizes.	Pea and buck-wheat.	Culm.	Prepared sizes.	Pea and buck-wheat.	Culm.
1875—June 7	\$2.56			\$2.86			1880—Jan. 4	\$1.40			\$1.61		
July 1	2.54			2.84			Mar. 1	1.60			1.81		
Aug. 1	2.56			2.86			Apr. 5	1.75			1.96		
Sept. 1	2.58			2.88			Sept. 13	1.90			2.11		
Oct. 1	2.60			2.90			1882—May 29	1.75			1.96		
1876—Feb. 1	2.41			2.71			July 10	1.90			2.11		
Mar. 1	2.30			2.60			1884—Apr. 1	1.77	\$1.57	\$1.57	1.86	\$1.66	\$1.66
May 1	2.32			2.62			1885—Feb. 2	1.57	1.37	1.37	1.66	1.46	1.46
June 1	2.34			2.64			Aug. 27	1.37	1.17	1.17	1.46	1.26	1.26
July 1	2.36			2.66			1886—Oct. 1	1.47	1.27	1.27	1.56	1.36	1.36
Aug. 1	2.42			2.72			1887—Apr. 4	1.56	1.41	1.41	1.67	1.52	1.52
Sept. 1	1.59			1.89			Nov. 21	1.81	1.66	1.66	1.92	1.77	1.77
Nov. 1	1.62			1.92			Dec. 12	1.90	1.75	1.75	2.00	1.85	1.85
1877—Apr. 1	1.36			1.57			1888—Mar. 12	1.70	1.55	1.55	1.80	1.65	1.65
Sept. 1	1.49			1.70			Apr. 2	1.70	1.45	1.45	1.80	1.55	1.55
Sept. 24	1.59			1.80			May 1	1.70	1.40	1.20	1.80	1.50	1.30
Oct. 29	1.49			1.70			Sept. 1	1.80	1.40	1.20	1.90	1.50	1.30
1878—Feb. 1	1.62			1.83			1889—Apr. 15*	1.70	1.40	1.20	1.75	1.45	1.25
Mar. 25	1.67			1.88			1892—Sept. 12	1.85	1.55	1.35	1.85	1.55	1.35
June 3	1.72			1.93									
June 26	1.75			1.96									
1879—Jan. 13	1.62			1.83									
Feb. 17	1.49			1.70									
Mar. 1	1.36			1.57									
Mar. 19	1.25			1.46									
Apr. 1	1.10			1.31									
Apr. 14	1.00			1.21									
Nov. 1	1.15			1.36									
Nov. 10	1.25			1.46									
Nov. 24	1.40			1.61									

* On and after this date buckwheat takes the same rate as culm.

TABLE 57—AVERAGE FREIGHT RATES, PER TON OF 2,240 POUNDS, CHARGED FOR THE TRANSPORTATION OF ANTHRACITE COAL FROM COLLIERIES ON THE LEHIGH VALLEY RAILROAD, IN THE WYOMING AND LEHIGH REGIONS, TO BUFFALO, N. Y., FROM AUGUST 1, 1875.

Date.	From Wyoming region.		From Lehigh region.		Date.	From Wyoming region.		From Lehigh region.	
	Coal cars.	Box cars.	Coal cars.	Box cars.		Coal cars.	Box cars.	Coal cars.	Box cars.
1875—Aug. 1	\$4.09	.....	.....	.....	1882—July 10	\$2.92	\$2.62	\$3.49	\$3.19
Sept. 1	4.12	.....	.....	.....	Sept. 4	3.00	2.70	3.57	3.27
1876—May 1	3.80	.....	.....	.....	Nov. 1	3.11	2.81	3.68	3.38
June 1	3.72	.....	.....	.....	1883—Apr. 23	2.74	2.44	3.06	2.76
Sept. 1	2.83	.....	.....	.....	July 2	2.87	2.57	3.19	2.89
Oct. 1	2.97	.....	.....	.....	Sept. 1	2.93	2.63	3.25	2.95
Oct. 27	3.22	.....	.....	.....	1884—May 1	2.62	2.32	2.94	2.64
1877—Jan. 1	3.26	.....	.....	.....	Aug. 1	2.71	2.41	3.03	2.73
May 1	2.61	.....	.....	.....	1885—May 1	2.35	2.15	2.74	2.62
May 21	2.43	.....	.....	.....	Nov. 2	2.50	2.30	2.97	2.77
June 1	2.38	.....	.....	.....	1886—May 1	2.20	2.00	2.57	2.47
Aug. 6	2.61	.....	.....	.....	Aug. 2	2.30	2.00	2.77	2.47
Aug. 20	3.41	.....	.....	.....	Nov. 15	2.30	2.15	2.72	2.62
Oct. 15	2.97	.....	.....	.....	1887—Apr. 4	2.25	2.25	2.72	2.72
Oct. 22	2.74	.....	.....	.....	Apr. 21	2.00	2.00	2.32	2.32
1878—Feb. 1	2.90	.....	.....	.....	Nov. 7	2.25	2.25	2.25	2.25
May 1	2.53	.....	.....	.....	1888—Apr. 16	2.00	2.00	2.00	2.00
July 1	2.69	.....	.....	.....	May 1	2.00	2.00	2.00	2.00
Sept. 2	2.85	\$2.85	.....	.....	Sept. 1	2.25	2.25	2.25	2.25
1879—Apr. 1	2.00	1.85	.....	.....	1889—Apr. 15	2.00	2.00	2.00	2.00
Oct. 20	2.16	1.85	.....	.....	1892—May 2	2.25	2.25	2.25	2.25
May 1	2.34	2.05	.....	.....	Sept. 12	2.50	2.50	2.50	2.50
Dec. 1	2.58	2.38	.....	.....	Sept. 19	2.50	2.50	2.70	2.70
1880—Apr. 1	2.77	2.47	.....	.....					
May 3	2.77	2.47	.....	\$3.02					
June 1	2.87	2.57	.....	3.07					
Aug. 2	2.96	2.66	.....	3.13					
Dec. 1	3.12	2.82	.....	3.29					
1881—Jan. 1	3.26	2.96	.....	3.58					
Apr. 25	2.93	2.63	.....	3.25					
July 1	3.01	2.71	.....	3.13					
Oct. 1	3.15	2.85	.....	3.27					
1882—Apr. 17	2.84	2.54	.....	2.96					
June 1	2.78	2.48	\$3.35	3.05					

TABLE 58—AVERAGE FREIGHT RATES CHARGED DURING EACH YEAR FROM 1873 FOR THE TRANSPORTATION OF BITUMINOUS COAL FROM COLLIERIES IN THE CLEARFIELD REGION, ON PENNSYLVANIA RAILROAD, TO JERSEY CITY, PHILADELPHIA, AND BALTIMORE.

Year.	Jersey City.	Phila-del-phia.	Balti-more.	Year.	Jersey City.	Phila-del-phia.	Balti-more.	Year.	Jersey City.	Phila-del-phia.	Balti-more.
1873	\$4.05	\$3.55	\$3.55	1883	\$3.33	\$2.50	\$2.25				
1874	4.05	3.55	3.55	1884	2.93	2.20	2.20				
1875	3.80	3.55	3.55	1885	2.45	2.00	2.00				
1876	3.55	3.55	3.55	1886	2.45	2.00	2.00				
1877	3.55	3.25	3.25	1887	2.25	2.10	2.00				
1878	3.55	2.25	3.25	1888	2.25	2.10	2.00				
1879	3.55	2.50	2.50	1889	2.25	2.00	2.00				
1880	3.75	2.50	2.50	1890	2.25	2.00	2.00				
1881	3.33	2.50	2.50	1891	2.25	2.00	2.00				
1882	3.33	2.50	2.50	1892	2.25	2.00	2.00				

Rates shown for years 1873 to 1886, inclusive, are for net ton; subsequent rates are for gross tons.

RATES ON CLASSIFIED TRAFFIC AND COMMODITIES BETWEEN VARIOUS WESTERN POINTS.

Here following will be given a series of tables showing the changes in rates between principal competitive localities west of Chicago and the Mississippi River. The points selected are the termini of the principal competitive routes in the section indicated. The rates between such points are the standard, or basis upon which the charges to numerous other places are established, and should be accepted not alone as showing the changes between the points given by the tables, but as also representing the reductions which have taken place in a large area of country tributary to the carriers operating between the points embraced in the tables. Traffic coming to or destined beyond these termini has also been to a large extent affected by these changes:

RATES ON CLASSIFIED TRAFFIC AND COMMODITIES FROM CHICAGO TO ST. PAUL, MINN.

The two tables following show the rates from Chicago to St. Paul. The first embraces the class rates from 1883 to the present time; the second covers the rates on the various commodities, some of which are shown for as early as 1871. The class rates are governed by the Western classification, in connection with which it should be remembered that the classification has been greatly reduced. The table of commodities is compiled based upon the rates of the commodities and the classification, and embraces for such articles both the changes which may have taken place in the rates and in the classification.

TABLE 59.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO TO ST. PAUL, FROM NOVEMBER 1, 1883.

[Governed by Western classification.]

Date.	Classes (rates in cents per 100 pounds).									
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
1883—Nov. 1.....	75	60	40	30	25	25	20	17½	15	.....
Nov. 21.....	75	60	40	30	25	25	20	17½	15	.....
1884—Apr. 1.....	60	45	35	25	20	25	20	17½	15	.....
1885—Apr. 13.....	50	40	30	20	15	20	17½	15	12½	.....
Nov. 16.....	60	45	35	22½	17½	22½	20	17½	15	.....
1886—July 20.....	40	30	20	15	10	17½	15	12½	10	.....
Nov. 1.....	72	60	40	28	24	26	23	18	18	.....
1887—Apr. 1.....	80	70	48	33	28	30	26	23	20	.....
June 16.....	75	60	45	30	20	25	20	16	13	12
Aug. 1.....	50	40	30	20	12½	17½	15	13	10	8
Sept. 1.....	50	40	30	20	12½	17½	15	13	10	8
Nov. 15.....	50	40	30	20	12½	17½	15	13	10	8
1888—June 4.....	60	50	35	25	17	18	16	14	12	10
July 19.....	60	50	35	25	17	17½	15	14	12	10
Oct. 10.....	60	50	40	25	20	25	20	17	14	13
1889—July 8.....	60	50	40	25	20	25	20	17	14	13
Sept. 25.....	40	35	22	17	12½	17	13	10	10	10
Nov. 20.....	60	50	40	25	20	25	20	17	14	13
1890—Feb. 17.....	40	35	22	17	12½	17	15	12	10	10
Aug. 1.....	50	40	30	20	15	20	15	12½	11	10
Nov. 17.....	60	50	40	25	18	25	18	15	13	12
1891—Jan. 1.....	60	50	40	25	20	25	20	17	14	13

TABLE 60.—RATES OF FREIGHT, ALL RAIL, FROM

[NOTE.—Where the rates shown are not specifically described as applying on less than

Date.	Commodities (rates in cents per 100 pounds).													
	Dry goods.	Cotton piece goods.	Boots and shoes.	Oil in barrels.	Hard coal.	Stoves.		Coffee.		Tea.	Sugar.		Mo-lasses.	
						Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1871—Jan. 9	130	....	130	70	35	....	....	....	70	....	....	70	....	....
Mar. 25	85	....	85	35	35	....	....	....	35	....	....	35	....	....
Aug. 10	70	....	70	25	25	....	....	....	25	....	....	25	....	....
Oct. 16	100	....	100	50	30	....	....	....	50	....	....	50	....	....
Dec. 1	130	....	130	70	35	....	....	....	70	....	....	70	....	....
1872—Apr. 22	75	....	75	30	30	....	....	....	30	....	....	30	....	....
Aug. 15	75	....	75	30	25	....	....	....	30	....	....	30	....	....
1873—Nov. 17	100	....	100	50	30	....	....	....	50	....	....	50	....	....
1874—Apr. 7	80	....	80	35	30	....	....	....	35	....	....	35	....	....
May 21	80	....	80	35	30	....	....	....	35	....	....	35	....	....
Aug. 10	80	....	80	35	22½	....	....	....	35	....	....	35	....	....
Sept. 1	80	....	80	35	30	....	....	....	35	....	....	35	....	....
Nov. 23	100	....	100	55	22½	....	....	....	55	....	....	55	....	....
1879—Jan. 2	90	....	90	80	20	....	....	....	45	....	....	45	....	....
Mar. 30	60	....	60	60	15	....	....	....	25	....	....	25	....	....
Nov. 3	75	....	75	90	20	....	....	....	35	....	....	35	....	....
1880—Mar. 22	60	....	60	60	20	....	....	....	25	....	....	25	....	....
1881—Jan. 24	75	....	75	90	20	....	....	....	35	....	....	35	....	....
Apr. 11	60	....	60	70	20	....	....	....	25	....	....	25	....	....
Nov. 15	60	....	60	60	15	....	....	....	25	....	....	25	....	....
1882—Feb. 2	75	....	75	25	20	....	....	....	35	....	....	35	....	....
Feb. 20	60	....	60	20	15	....	....	....	25	....	....	25	....	....
1883—Nov. 1	75	75	75	....	....	40	25	30	25	75	30	25	30	25
1884—Mar. 1	75	75	75	....	....	40	25	30	25	75	30	25	30	25
Apr. 1	60	60	60	....	....	35	20	25	20	60	25	20	25	20
1885—Apr. 3	50	50	50	....	....	30	15	20	15	50	20	15	20	15
Nov. 16	60	60	60	....	....	35	17½	22½	17½	60	22½	17½	17½	17½
1886—July 1	60	60	60	....	....	35	17½	22½	17½	60	22½	17½	17½	17½
July 20	40	40	40	....	....	20	10	15	10	40	15	10	15	10
Nov. 1	72	72	72	....	....	40	24	28	24	72	28	24	28	24
1887—Apr. 1	80	80	80	....	....	48	28	33	28	80	33	28	33	28
June 6	75	75	75	....	....	45	20	30	20	75	30	20	30	20
Aug. 1	50	50	50	....	....	30	12½	20	12½	50	20	12½	20	12½
Nov. 15	50	30	50	12½	10	30	12½	20	12½	50	20	12½	20	12½
1888—June 4	60	35	60	17	10	35	17	25	17	60	25	17	25	17
July 19	60	35	60	17	10	35	17	25	17	60	25	17	25	17
Sept. 4	60	....	60	17	10	....	....	....	17	....	....	17	....	....
Oct. 10	60	35	60	20	12½	40	20	25	20	62	25	20	25	20
Nov. 20	60	....	60	17	12½	....	....	....	20	....	....	20	....	....
1889—Jan. 10	60	35	60	25	12½	40	20	25	20	60	25	20	25	20
Apr. 1	60	60	60	....	....	40	20	25	20	60	25	20	25	20
July 5	60	....	60	25	12½	....	....	....	10	....	....	10	....	....
Sept. 5	60	....	60	12½	12½	....	....	....	20	....	....	12½	....	....
Sept. 25	40	40	40	12½	12½	22	19	17	12½	40	17	12½	17	12½
Nov. 20	60	60	60	12½	12½	40	20	25	20	60	25	20	25	20
1890—Feb. 17	40	40	40	12½	12½	22	10	17	12½	40	17	12½	17	12½
Aug. 1	50	50	50	12½	12½	30	10	20	15	50	20	15	20	15
Nov. 17	60	60	60	12½	12½	30	10	25	18	60	25	18	25	18
1891—Jan. 1	60	....	60	10	12½	....	....	....	20	....	....	20	....	....
Jan. 22	60	....	60	12½	12½	....	....	....	20	....	....	20	....	....
1892—June 10	60	....	60	15	12½	....	....	....	20	....	....	20	....	....

RATES ON CLASSIFIED TRAFFIC, ST. PAUL, MINN., TO CHICAGO.

The following table shows the changes which have taken place in rates of freight carried in the classes from St. Paul, Minn., to Chicago, from 1883 up to the present time.

With this table, as well as the others referred to, the changes which have been pointed out for the Western classification are to be also here considered, in order that the correct result of the reductions which have taken place may be fully understood.

TABLE 61.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND GRAIN FROM ST. PAUL TO CHICAGO FROM NOVEMBER 1, 1883.

[Governed by Western classification.]

Date.	Class (rates in cents per 100 pounds.)												
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat and its products.	Corn and grain.	Rye and bar- ley.
1883—Nov. 1.....	75	60	40	30	25	25	20	17½	15	.....	20	20	20
1884—Apr. 1.....	60	45	35	25	20	25	20	17½	15	.....	20	17½	17½
1885—Apr. 13.....	50	40	30	20	15	20	17½	15	12½	.....	17½	15	15
Nov. 16.....	60	45	35	22½	17½	22½	20	17½	15	.....	17½	15	15
1886—July 20.....	45	35	25	20	15	20	17½	15	12½	.....	.....	.....	.....
Nov. 1.....	72	60	48	28	24	26	23	18	18	.....	.....	12½	12½
1887—Apr. 1.....	80	70	48	33	28	30	26	23	20	.....	.....	18	18
June 16.....	75	60	45	30	20	25	20	16	13	12	.....	.....	.....
Aug. 1.....	50	40	30	20	12½	17½	15	13	10	8	.....	.....	.....
Sept. 1.....	50	40	30	20	12½	17½	15	13	10	8	12½	12½	12½
June 4.....	60	50	35	25	17	18	16	14	12	10	12½	12½	12½
July 19.....	60	50	35	25	17	17½	15	14	12	10	12½	12½	12½
Oct. 10.....	60	50	40	25	20	25	20	17	14	13	12½	12½	12½
1890—Nov. 17.....	60	50	40	25	18	25	18	15	13	12	12½	12½	12½
1891—Jan. 1.....	60	50	40	25	20	25	20	17	14	13	12½	12½	12½

RATES FROM CHICAGO TO MISSOURI RIVER POINTS.

Rates from Chicago to Missouri River points, such as Kansas City and St. Joseph, Mo., and Atchinson and Leavenworth, Kans., are used as a basis for constructing the rates from Chicago to points in Kansas, Nebraska, Colorado, and Utah. They are therefore important rates, at which a large traffic is carried, and when changed similarly affect rates to the western points indicated. A table is here given showing the changes in rates from Chicago to the Missouri River from 1877 to date.

The traffic taken between these points is governed by the Western classification, which, it has elsewhere been shown, has by its expansion reduced the classification on a large proportion of articles carried thereunder. Accordingly the traffic taken at the classified rates here given has received the benefit of the changes in the classification, and this fact should be kept in mind when the rates of this table are under consideration.

Data have also been collected showing the actual changes in the rates of a number of articles between Chicago and Kansas City, and are given in the second table following. This table covers a period of nearly thirty years, and the rates of 1892 are shown to be in many instances less than a third of those of 1864. Some remarkable reductions are observed, notably the rates on stoves.

TABLE 62.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO TO KANSAS CITY MO.; ATCHISON, KANS.; LEAVENWORTH, KANS., AND ST. JOSEPH, MO., FROM JANUARY 1, 1877.

[Governed by Western classification.]

Date.	Classes (rates in cents per 100 pounds).									
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
1877—Jan. 1.....	85	70	40	30	25	37½	30	20	.....	.....
1882—Aug. 1.....	90	75	50	32	28	37½	32	23	.....	.....
Nov. 1.....	90	75	50	32	28	37½	32	23	23	.....
1884—June 2.....	90	75	50	35	30	32½	29½	23	23	.....
1887—April 1.....	90	75	50	35	30	32½	29½	23	20	16
Aug. 1.....	90	75	50	35	30	32½	29½	23	20	16
Dec. 20.....	75	60	40	30	25	30	25	20	17½	16
1888—Jan. 9.....	75	60	40	30	25	30	25	15	15	15
Mar. 26.....	75	60	40	30	25	30	25	20	17½	16
1890—Feb. 22.....	60	50	35	25	18	25	20	15	14	13
Aug. 1.....	70	58	42	28	21	28	23	18	16	15
1891—Jan. 1.....	75	60	42	30	25	30	25	20	17½	16

TABLE 63—RATES OF FREIGHT, ALL-RAIL, FROM

[NOTE.—Where the rates shown are not specifically described as applying on less than carload

Date.	Commodities (rates in cents per 100 pounds).											
	Dry goods.	Cotton piece goods.	Boots and shoes.	Stoves.		Coffee.		Tea.	Sugar.		Molasses.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1864—Feb. 12	154	154	154	154	154	94	94	131	94	94	94	94
1865—Mar. 27	170	170	170	170	170	103	103	152	103	103	103	103
1869—Oct. 25	120	120	120	120	65	65	65	85	65	65	65	65
1870—Mar. 24	100	100	100	100	50	50	50	70	50	50	50	50
1871—Nov. 1	100	100	100	45	45	45	45	70	45	45	45	45
1874—Apr. 20	90	90	90	75	*8500	60	35	90	40	35	40	35
1875—Mar. 1	100	100	100	60	45	60	45	100	45	40	45	40
1876—Jan. 19	85	85	85	45	25	45	25	85	30	25	30	25
Feb. 1	90	90	90	50	40	50	35	90	40	35	40	35
1877—Jan. 29	85	85	85	45	25	30	25	85	30	25	30	25
Nov. 1	85	85	85	45	25	30	30	85	30	30	30	30
1878—Jan. 28	85	85	85	45	25	30	30	85	30	30	30	30
Mar. 25	85	85	85	45	25	30	25	85	30	25	30	25
1882—Aug. 1	90	90	90	50	28	32	28	90	32	28	32	28
Nov. 1	90	90	90	50	28	32	28	90	32	28	32	28
1883—Jan. 1	90	90	90	50	28	32	28	90	32	28	32	28
Apr. 16	90	90	90	50	28	32	28	90	32	28	32	28
1884—June 2	90	90	90	50	30	35	30	90	35	30	35	30
1885—Nov. 23	90	90	90	50	30	33½	30	90	33½	30	33½	30
1887—Aug. 1	90	90	90	50	30	33½	30	90	33½	30	33½	30
Dec. 20	75	55	75	40	25	28½	25	75	28½	25	28½	25
1888—Jan. 9	75	45	75	40	25	28½	25	75	28½	25	28½	25
Mar. 26	75	55	75	40	25	28½	25	75	28½	25	28½	25
Apr. 2	75	45	75	40	25	28½	25	75	28½	25	28½	25
1889—Jan. 10	75	45	75	40	25	28½	25	75	28½	25	28½	25
Apr. 1	75	45	75	40	25	28½	25	75	28½	25	28½	25
1890—Feb. 22	60	40	60	35	18	23½	18	60	23½	18	23½	18
Aug. 1	70	47	70	42	21	28	21	70	28	21	28	21
1891—Jan. 1	75	47	75	42	25	30	25	75	30	25	30	25
1892—Sept. 1	75	47	75	42	25	30	25	75	30	25	30	25

* Per carload.

CHICAGO, ILL., TO KANSAS CITY, MO.

or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																		
Rice.		Groceries.	Drugs.	Gunny, jute, and burlaps.		Leather.		Soap, common.		Nails.		Hardware.	Agri-cultural imple-ments.		Machin-ery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
94	94	131	131	131	131	131	131	94	94	112	112	112	Special		131	131	.....	.....
103	103	152	152	152	152	152	152	103	103	119	119	119	do.....		152	152	.....	.....
65	65	65	120	105	105	85	85	65	65	65	65	85	120	.....	120	Sp'l	.....	.....
50	50	50	100	70	70	70	70	50	50	50	50	90	100	do	70	*\$110	50	50
45	45	45	100	70	70	70	70	45	45	45	45	70	100	*\$100	70	*\$100	50	50
40	35	75	90	40	40	75	75	40	35	40	*\$85	60	90	*\$85	90	*\$85	40	40
45	40	75	100	45	45	75	75	45	40	45	40	60	100	*\$90	100	*\$90	60	45
40	35	70	90	40	40	50	50	40	35	40	35	50	90	*\$80	90	*\$80	50	40
30	25	70	85	30	30	70	70	30	25	30	25	45	85	*\$75	85	*\$75	45	30
30	25	85	85	30	30	70	70	30	25	30	25	45	.....	37½	70	37½	45	30
30	30	85	85	30	30	70	70	30	30	30	30	45	.....	37½	70	37½	30	30
30	30	85	85	30	30	70	70	30	30	30	30	45	.....	37½	70	37½	45	30
30	25	85	85	30	30	70	70	30	25	30	25	45	.....	37½	70	37½	45	30
32	28	90	90	32	32	75	75	32	28	32	23	50	.....	37½	75	37½	50	30
32	28	90	90	32	32	75	75	32	28	32	25	75	.....	37½	75	37½	50	25
32	28	90	90	32	32	75	75	32	28	32	28	75	.....	37½	75	37½	50	25
32	28	90	90	32	32	75	75	32	28	32	28	75	.....	37½	75	37½	50	25.6
35	30	90	90	35	35	75	75	35	30	35	30	75	.....	32½	75	32½	50	28
33½	30	90	90	35	35	75	75	35	30	35	30	75	.....	32½	75	32½	50	28
33½	30	90	90	35	35	75	75	35	30	35	25	75	.....	32½	75	32½	50	28
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	25
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	25
23½	18	60	60	25	18	50	25	25	18	25	18	50	.....	25	50	25	35	18
28	21	70	70	28	21	58	28	28	21	28	21	58	.....	28	58	28	42	21
30	25	75	75	30	25	60	30	30	25	30	25	60	.....	30	60	30	42	25
30	25	75	75	30	25	60	30	30	25	30	25	60	.....	30	60	30	42	25

* Per carload.

RATES FROM ST. LOUIS TO MISSOURI RIVER POINTS.

Two tables following are given, the first table showing the rates on various classes from St. Louis to Missouri River points, and the second table showing the rates on a number of commodities between the same points. These tables are governed by the Western classification:

TABLE 64.—WEST-BOUND RATES, ST. LOUIS TO MISSOURI RIVER POINTS, VIZ, KANSAS CITY, ST. JOSEPH, ATCHISON, AND LEAVENWORTH.

Date.	Classes (in cents per 100 pounds).									
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
1877—Jan. 1.....	65	50	35	25	20	25	20	15	.....	.....
1882—Aug. 1.....	70	55	40	27	23	25	22	18	.....	.....
Nov. 1.....	70	55	40	27	23	25	22	18	18	.....
1884—June 2.....	70	55	40	30	25	25	22	18	18	.....
1887—Apr. 1.....	70	55	40	30	25	25	22	18	15	12
Aug. 1.....	70	55	40	30	25	25	22	18	15	11
Dec. 20.....	55	40	30	25	20	22½	17½	15	12½	11
1888—Jan. 9.....	55	40	30	25	20	22½	17½	10	10	10
Mar. 26.....	55	40	30	25	20	22½	17½	15	12½	11
1890—Feb. 22.....	40	30	25	20	13	17½	12½	10	9	8
Mar. 3.....	50	38	32	23	16	20½	15½	13	11	10
1891—Jan. 1.....	55	40	32	25	20	22½	17½	15	12½	11

TABLE 65.—RATES OF FREIGHT, ALL RAIL, FROM

[NOTE.—Where the rates shown are not specifically described as applying on less than

Date.	Commodities (rates in cents per 100 pounds).											
	Dry goods.	Cotton piece goods.	Boots and shoes.	Stoves.		Coffee.		Tea.	Sugar.		Molasses.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1883—Jan. 1	70	70	70	40	23	27	23	70	27	23	27	23
Apr. 16	70	70	70	40	23	27	23	70	27	23	27	23
1884—Mar. 1	70	70	70	40	23	27	23	70	27	23	27	23
June 2	70	70	70	40	25	30	25	70	30	25	30	25
1885—Nov. 23	70	70	70	40	25	28½	25	70	28½	25	28½	25
1886—July 1	70	70	70	40	25	28½	25	70	28½	25	28½	25
1887—Apr. 1	70	70	70	40	25	28½	25	70	28½	25	28½	25
Aug. 1	70	70	70	40	25	28½	25	70	28½	25	28½	25
Dec. 20	55	40	55	30	20	23½	20	55	23½	20	23½	20
1888—Jan. 9	55	30	55	30	20	23½	20	55	23½	20	23½	20
Mar. 26	55	40	55	30	20	23½	20	55	23½	20	23½	20
Apr. 2	55	30	55	30	20	23½	20	55	23½	20	23½	20
1889—Jan. 10	55	30	55	30	20	23½	20	55	23½	20	23½	20
Apr. 1	55	30	55	30	20	23½	20	55	23½	20	23½	20
1890—Feb. 22	40	25	40	25	13	18½	13	40	18½	13	18½	13
Aug. 1	50	32	50	32	16	23	16	50	23	16	23	16
1891—Jan. 1	55	32	55	32	20	23	20	55	25	20	25	20

ST. LOUIS, MO., TO KANSAS CITY, MO.

carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																		
Rice.		Groceries.	Drugs.	Crockery and earth-en ware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Ma-chinery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
27	23	70	70	27	23	27	27	55	55	27	18	27	23	55	55	25	.....	.....
27	23	70	70	27	23	27	27	55	55	27	23	27	23	55	55	25	40	21½
27	23	70	70	27	22	27	27	55	55	27	23	27	23	55	55	25	40	21½
30	25	70	70	30	22	30	30	55	55	30	25	30	25	55	55	25	40	24
28½	25	70	70	30	22	30	30	55	55	30	25	30	25	55	55	25	40	24
28½	25	70	70	30	30	30	30	55	55	30	25	30	25	55	55	25	40	24
28½	25	70	70	30	25	30	30	55	55	30	12½	30	25	55	55	25	40	24
28½	25	70	70	30	25	30	30	55	55	30	12½	30	25	55	55	25	40	24
28½	25	70	70	30	25	30	30	55	55	30	12½	30	20	55	55	25	40	24
23½	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23½	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23½	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23½	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23½	20	55	55	40	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23½	20	55	55	25	20	25	20	40	25	25	12½	25	20	40	40	22½	30	20
18½	13	40	40	20	13	20	13	30	20	20	12½	20	13	30	30	17½	25	13
23	16	50	50	23	16	23	16	38	23	23	12½	23	16	38	38	20½	32	16
25	20	55	55	25	20	25	20	40	25	25	12½	25	20	40	40	22½	32	20

RATES FROM ST. LOUIS, MO., TO ST. PAUL, MINN.

The following table presents the rates from 1883 to 1890, inclusive, on the traffic above indicated. Important reductions are shown to have taken place in the rates of each class. It will also be recalled that the Western classification, which governs this traffic, has been greatly reduced.

A second table covering the same points is given, which shows for an equal period the changes in the various important commodities.

TABLE 66.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND GRAIN FROM ST. LOUIS, MO., TO ST. PAUL, MINN., VIA ALL-RAIL LINES, FROM NOVEMBER 1, 1883.

[Governed by Western classification.]

Date.	Rates (in cents per 100 pounds).										
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat. Other grain.
1883—Nov. 1.....	75	60	40	30	25	25	20	17½	15	.....	20
1884—Apr. 1.....	60	45	35	25	20	25	20	17½	15	.....	20
1885—Apr. 13.....	50	40	30	20	15	20	17½	15	12½	.....	17½
Nov. 16.....	60	45	35	22½	17½	22½	20	17½	15	.....	17½
1886—July 20.....	40	30	20	15	10	17½	15	12½	10	.....	15
Nov. 1.....	72	60	40	28	24	26	23	18	18	.....	17½
1887—Apr. 1.....	84	73½	50½	34½	29½	31½	27½	24	21	.....	17½
June 16.....	79	63	47	31½	21	26	21	17	13½	12½	17½
Aug. 1.....	52½	42	31½	21	13	18	16	14	10½	8½	17½
Sept. 1.....	52½	42	31½	21	13	18	16	14	10½	8½	13
1888—June 4.....	63	52½	37	26	18	19	17	15	13	10½	13
July 19.....	63	52½	37	26	18	18½	16	15	13	10½	13
Oct. 10.....	63	52½	42	26	21	26	21	18	15	13½	13
Nov. 10.....	63	52½	42	26	21	26	21	18	15	13½	15
1889—Sept. 25.....	52	45½	28½	22	15	22	15	13	13	12	15
Sept. 26.....	63	52½	42	26	21	26	21	18	15	13½	15
Oct. 19.....	52	45½	28½	22	15	22	15	13	13	12	15
Nov. 1.....	55	45	30	25	15	22½	17½	15	13	12	15
Nov. 20.....	63	52½	42	26	21	26	21	18	15	13½	15
1890—Feb. 17.....	42	31½	23	18	13	18	16	12½	10½	10½	15
Aug. 1.....	52½	42	31½	21	16	21	16	13	11½	10½	15
Nov. 17.....	63	52½	42	26	19	26	19	16	13½	12½	15

Date		Description		Amount	
1890	Jan 1	Balance		100.00	
	Feb 1	Interest		1.00	
	Mar 1	Interest		1.00	
	Apr 1	Interest		1.00	
	May 1	Interest		1.00	
	Jun 1	Interest		1.00	
	Jul 1	Interest		1.00	
	Aug 1	Interest		1.00	
	Sep 1	Interest		1.00	
	Oct 1	Interest		1.00	
	Nov 1	Interest		1.00	
	Dec 1	Interest		1.00	
1891	Jan 1	Balance		100.00	
	Feb 1	Interest		1.00	
	Mar 1	Interest		1.00	
	Apr 1	Interest		1.00	
	May 1	Interest		1.00	
	Jun 1	Interest		1.00	
	Jul 1	Interest		1.00	
	Aug 1	Interest		1.00	
	Sep 1	Interest		1.00	
	Oct 1	Interest		1.00	
	Nov 1	Interest		1.00	
	Dec 1	Interest		1.00	

The above is a statement of the account of the
 interest on the loan of \$100.00 for the year
 1890 and 1891. The interest is calculated at
 the rate of 1% per annum. The interest for
 1890 is \$1.00 and for 1891 is \$1.00.
 The total interest for the two years is \$2.00.
 The principal of the loan is \$100.00.
 The total amount due is \$102.00.
 The interest is payable on the 1st of each
 month. The principal is payable on the 1st
 of January of the following year.

TABLE 67.—RATES OF FREIGHT, ALL RAIL,

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).											
	Dry goods.	Cotton piece goods.	Boots and shoes.	Stoves.		Coffee.		Tea.	Sugar.		Molasses.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1883—Nov. 1	75	75	75	40	25	30	25	75	30	25	30	25
1884—Mar. 1	75	75	75	40	25	30	25	75	30	25	30	25
Apr. 1	60	60	60	35	20	25	20	60	25	20	25	20
1885—Apr. 13	50	50	50	30	15	20	15	50	20	15	20	15
Nov. 16	60	60	60	35	17½	22½	17½	60	22½	17½	22½	17½
1886—July 1	60	60	60	35	17½	22½	17½	60	22½	17½	22½	17½
July 20	40	40	40	20	10	15	10	40	15	10	15	10
Nov. 1	72	72	72	40	24	28	24	72	28	24	28	24
1887—Apr. 1	84	31½	84	50½	29½	34½	29½	84	34½	29½	34½	29½
June 16	79	31½	79	47	31½	31½	21	79	31½	21	31½	21
Aug. 1	52½	31½	52½	31½	13	21	13	52½	21	13	21	13
1888—June 4	63	35	63	37	18	26	18	63	26	18	26	18
July 19	63	35	63	37	18	26	18	63	26	18	26	18
Oct. 10	63	37	63	42	21	26	21	63	26	21	26	21
1889—Jan. 10	63	63	63	42	21	26	21	63	26	21	26	21
Apr. 1	63	63	63	42	21	26	21	63	26	21	26	21
Sept. 25	52	52	52	28½	15	22	15	52	22	15	22	15
Sept. 26	63	63	63	42	21	26	21	63	26	21	26	21
Oct. 19	52	52	52	28½	15	22	15	52	22	15	22	15
Nov. 1	55	55	55	30	15	25	15	55	25	15	25	15
Nov. 20	63	63	63	42	21	26	21	63	26	21	26	21
1890—Feb. 17	42	42	42	23	13	18	13	42	18	13	18	13
Aug. 1	52½	52½	52½	31½	16	21	16	52½	21	16	21	16
Nov. 17	63	63	63	42	19	26	19	63	26	19	26	19

FROM ST. LOUIS, MO., TO ST. PAUL, MINN.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																		
Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Machinery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
30	25	75	75	30	25	30	30	60	60	30	17½	30	25	60	60	25	.....	.....
30	25	75	75	30	20	30	30	60	60	30	25	30	25	60	60	25	40	24
25	20	60	60	25	20	25	25	45	45	25	20	25	20	45	45	25	35	20
20	15	50	50	20	17½	20	20	40	40	20	15	20	15	40	40	20	30	16
22½	17½	60	60	22½	20	22½	22½	45	45	22½	17½	22½	17½	45	45	22½	35	18
22½	17½	60	60	22½	22½	22½	22½	45	45	22½	17½	22½	17½	45	45	22½	35	18
15	10	40	40	15	15	15	15	30	30	15	10	15	10	30	30	17½	20	12
28	24	72	72	28	28	28	28	60	60	28	24	28	24	60	60	26	40	22½
34½	29½	84	84	34½	29½	34½	34½	73½	73½	34½	29½	34½	29½	73½	73½	31½	50½	27½
31½	21	79	79	31½	21	31½	31½	63	63	31½	21	31½	21	63	63	26	47	25½
21	13	52½	52½	21	13	21	21	42	42	21	13	21	13	42	42	18	31½	16½
26	18	63	63	26	18	26	26	52½	52½	26	18	26	18	52½	52½	19	37	20½
26	18	63	63	26	18	26	26	52½	52½	26	18	26	18	52½	52½	18½	37	20½
26	21	63	63	26	21	26	26	52½	52½	26	21	26	21	52½	52½	26	42	20½
26	21	63	63	52½	21	26	26	52½	52½	26	21	26	21	52½	52½	26	42	21
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
22	15	52	52	22	15	22	15	45½	22	22	15	22	15	45½	45½	22	28½	15
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
22	15	52	52	22	15	22	15	45½	22	22	15	22	15	45½	45½	22	28½	15
25	15	55	55	25	15	25	15	45	25	25	15	25	15	45	45	22½	30	15
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
18	13	42	42	18	13	18	13	31½	18	18	13	18	13	31½	31½	18	23	13
21	16	.....	52½	21	16	21	16	42	21	21	16	21	16	42	42	21	31½	16
26	19	.....	63	26	19	26	19	52½	26	26	19	26	19	52½	52½	26	42	19

RATES FROM ST. PAUL, MINN., TO ST. LOUIS, MO.

The following table gives the class rates from 1883 to the present time between St. Paul and St. Louis. The Western classification governs the rates shown in this table.

TABLE 68.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND GRAIN FROM ST. PAUL, MINN., TO ST. LOUIS, MO., VIA RAIL LINES, FROM NOVEMBER, 1, 1883.

[Governed by Western classification.]

Date.	Rates (in cents per 100 pounds).											
	1	2	3	4	5	A	B	C	D	E	Wheat.	Other grain.
1883—Nov. 1.....	75	60	40	30	25	25	20	17½	15	.....	20	20
1884—Apr. 1.....	60	45	35	25	20	25	20	17½	15	.....	20	17½
1885—Apr. 13.....	50	40	30	20	15	20	17½	15	12½	.....	17½	15
Nov. 1.....	60	45	35	22½	17½	22½	20	17½	15	.....	17½	15
1886—July 20.....	45	35	25	20	15	20	17½	15	12½	.....	17½	15
Nov. 1.....	72	60	40	28	24	26	23	18	18	.....	17½	12½
1887—Apr. 1.....	84	73½	50½	34½	29½	31½	27½	24	21	.....	17½	12½
June 16.....	79	63	47	31½	21	26	21	17	13½	12½	17½	12½
Aug. 1.....	52½	42	31½	21	13	18	16	14	10½	8½	17½	12½
Sept. 1.....	52½	42	31½	21	13	18	16	14	10½	8½	13	13
1888—June 4.....	63	52½	37	26	18	19	17	15	13	10½	13	13
July 19.....	63	52½	37	26	18	18½	16	15	13	10½	13	13
Oct. 10.....	63	52½	42	26	21	26	21	18	15	13½	13	13
Nov. 10.....	63	52½	42	26	21	26	21	18	15	13½	15	15
1889—Jan. 1.....	63	52½	42	26	21	26	21	18	15	13½	16	16
1890—Aug. 1.....	63	52½	42	26	21	26	21	18	15	13½	16	16
Nov. 17.....	63	52½	42	26	19	26	19	16	13½	12½	16	16
1891—Jan. 1.....	63	52½	42	26	21	26	21	18	15	13½	16	*16
1893—Jan. 22.....	63	52½	42	26	21	26	21	18	15	13½	16	17

* Barley, 17 cents since February 3, 1891.

Table 69 here following shows the yearly average rates per bushel on wheat, flour, and barley, via Mississippi River steamers, from St. Paul to St. Louis since 1856:

TABLE 69.—AVERAGE FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT, FLOUR, AND BARLEY, FROM ST. PAUL TO ST. LOUIS VIA MISSISSIPPI RIVER STEAMERS DURING EACH YEAR FROM 1856.

[Compiled from Reports of St. Louis Merchants' Exchange.]

Year.	Commodity. (Rates in cents per bushel.)			Year.	Commodity. (Rates in cents per bushel.)			Year.	Commodity. (Rates in cents per bushel.)		
	Wheat.	Flour.	Barley.		Wheat.	Flour.	Barley.		Wheat.	Flour.	Barley.
1856	18	60	14	1869.....	20	68	15	1888.....	9	30	7.2
1857	14	50	12	1870.....	18	60	15	1889.....	9	30	7.2
1858	14	50	11	1871.....	15	50	12	1890.....	6	20	4.8
1859	15	50	12	1872.....	15	50	12	1891.....	6	20	4.8
1860	16	52	12	1879.....	12	40	9.6	1892.....	7½	25	6
1861	15	50	12	1880.....	10.8	36	8.6				
1862	18	60	14	1881.....	10.8	36	8.6				
1863	19	62	14	1882.....	10.2	35	8.4				
1864	25	75	19	1883.....	10.2	35	8.4				
1865	24	73	19	1884.....	10.2	35	8.4				
1866	23	72	18	1885.....	10.2	35	8.4				
1867	21	70	16	1886.....	9	30	7.2				
1868	20	68	15	1887.....	9	30	7.2				

Data for the years 1873 to 1878, inclusive, not at hand.

RATES FROM MISSOURI RIVER POINTS TO CHICAGO.

The first table following shows the rates from principal Missouri River points to Chicago, from 1877 to the present time, both for classes and several important commodities. The class rates were governed by various classifications, all of which have been superseded by the Western classification.

The second table shows changes between the same points on some of the articles that are included in the first table, but in addition gives the changes in rates on packing-house products, and covers for all of the articles earlier dates than those given in the first table.

TABLE 70.—RATES OF FREIGHT CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES FROM ATCHISON, KANS., ST. JOSEPH, MO., KANSAS CITY, MO., AND LEAVENWORTH, KANS., TO CHICAGO, ILL., FROM JANUARY 2, 1877.

Date.	Rates (in cents per 100 pounds).												Rates per car.			
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Wheat.	Rye and barley.	Corn and oats.	Cattle.	Hogs.	Sheep.
1877—Jan. 2.....	75	60	45	30	.....	.....	.....	.....	.....	.....	30	22½	22½	\$67.50	\$67.50	\$50.00
May 1.....	75	60	45	30	.....	.....	.....	.....	.....	.....	30	25	25	70.00	70.00	50.00
July 12.....	75	60	45	30	.....	.....	.....	.....	.....	.....	28	21	21	67.50	67.50	50.00
Aug. 20.....	75	60	45	30	.....	.....	.....	.....	.....	.....	30	25	25	67.50	67.50	50.00
Nov. 1.....	75	60	45	30	.....	.....	.....	.....	.....	.....	30	25	25	67.50	67.50	45.00
1878—Jan. 12.....	75	60	45	25	.....	.....	.....	.....	.....	.....	30	20	20	67.50	67.50	45.00
Jan. 14.....	75	60	45	25	.....	.....	.....	.....	.....	.....	25	20	20	67.50	67.50	45.00
July 25.....	75	60	45	25	.....	.....	.....	.....	.....	.....	25	20	20	67.50	57.50	45.00
Nov. 18.....	75	60	45	31	.....	.....	.....	.....	.....	.....	25	20	20	67.50	57.50	45.00
Nov. 27.....	75	60	45	31	.....	.....	.....	.....	.....	.....	25	20	20	67.50	57.50	45.00
1879—Feb. 1.....	75	60	45	31	.....	.....	.....	.....	.....	.....	25	20	20	67.50	57.50	45.00
Feb. 10.....	75	60	45	26	.....	.....	.....	.....	.....	.....	25	20	20	67.50	57.50	45.00
Mar. 1.....	75	60	45	25	.....	.....	.....	.....	.....	.....	25	20	20	67.50	47.50	45.00
Nov. 1.....	75	60	45	26½	.....	.....	.....	.....	.....	.....	28	23	23	67.50	47.50	45.00
1880—Feb. 2.....	75	60	45	27	.....	.....	.....	.....	.....	.....	26½	21½	21½	67.50	47.50	45.00
Mar. 1.....	75	60	45	27	.....	.....	.....	.....	.....	.....	25½	20½	20½	67.50	47.50	45.00
Apr. 5 (new classification).....	75	60	45	27	27	27	27	20½	25½	25½	25½	20½	20½	67.50	47.50	45.00
Apr. 14.....	75	60	45	27	27	27	25½	20	25½	25½	25	20	20	67.50	47.50	45.00
Apr. 21.....	75	60	45	27	27	27	25½	20	25½	25½	18	14	14	67.50	47.50	45.00
Apr. 24.....	75	60	45	27	27	27	25½	20	25½	25½	15	12	12	67.50	47.50	45.00
Sept. 29.....	75	60	45	27	27	27	25½	20	25½	25½	27½	22½	22½	67.50	47.00	45.00
Oct. 27.....	75	60	45	27	27	27	25½	20	25½	25½	25	20	20	67.50	47.50	45.00
Nov. 1.....	75	60	45	27	27	27	25½	20	25	25½	27½	22½	22½	67.50	47.50	45.00
Nov. 6.....	75	60	45	27	27	27	26½	20	25	25½	25	20	20	67.50	47.50	45.00
Nov. 22.....	75	60	45	27	27	27	26½	20	26½	25½	25½	20½	20½	67.50	47.50	45.00
1881—Jan. 1.....	75	60	45	27	27	27	26½	20½	25½	25½	25½	20½	20½	67.50	47.50	45.00
Mar. 8.....	75	60	45	27	27	27	26½	20½	27	25½	25½	20½	20½	67.50	47.50	45.00
Apr. 1.....	75	60	45	27	27	27	25½	20	26½	25	25	20	20	67.50	47.50	45.00
July 23.....	75	60	45	27	27	27	25	20	26	25	25	20	20	67.50	47.50	45.00
Nov. 7.....	75	60	45	27	27	27	25	20	26	25	25	20	20	60.00	47.50	45.00
1882—Jan. 2.....	75	60	45	27	27	27	25	20	26	25	25	20	20	60.00	45.00	45.00
Feb. 1.....	75	60	45	27	27	27	25	20	25	25	20	18	18	60.00	45.00	45.00
Mar. 13.....	75	60	45	27	27	27	25	19	25½	25	21	16½	16½	60.00	47.50	45.00
Apr. 1.....	75	60	45	27	27	27	25	20	25½	25	25	20	20	65.00	50.00	45.00
Aug. 1.....	75	60	45	27	27	27	25	20	25½	25	27½	22½	22½	65.00	50.00	45.00
Oct. 16.....	75	60	45	30	27	27	25	20	25½	25	25	20	20	65.00	50.00	45.00
Dec. 1.....	75	60	45	30	27	27	25½	20	26½	25½	25	20	20	65.00	50.00	45.00
1883—Jan. 1.....	75	60	45	30	27	27	25½	20	26½	25½	25	20	20	65.00	42.50	45.00

TABLE 70.—RATES OF FREIGHT CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES, ETC.—Continued.

	Rates (in cents per 100 pounds).													Rates per car.		
	1.	2.	3.	4.	5.	6.	A.	B.	C.	D.	Wheat.	Rye and barley.	Corn and oats.	Cattle.	Hogs.	Sheep.
1883—May 5 (new classification).	90	75	50	32	28	25	37 $\frac{1}{2}$	32	23	23	25	20	20	\$65.00	\$42.50	\$45.00
Nov. 12.....	90	75	50	32	28	25	37 $\frac{1}{2}$	32	23	23	25	20	20	65.00	45.00	45.00
Dec. 17.....	90	75	50	32	28	25	37 $\frac{1}{2}$	32	23	23	25	20	20	65.00	45.00	45.00
1884—Jan. 15.....	90	75	50	32	28	25 $\frac{1}{2}$	37 $\frac{1}{2}$	32	23	23	25	20	20	65.00	42.50	45.00
Mar. 15.....	90	75	50	32	28	25	37 $\frac{1}{2}$	32	23	23	25	20	20	65.00	42.50	45.00
June 2.....	90	75	50	35	30	25	32 $\frac{1}{2}$	29 $\frac{1}{2}$	23	23	25	20	20	65.00	42.50	45.00
June 16.....	90	75	50	35	30	25	32 $\frac{1}{2}$	29 $\frac{1}{2}$	23	23	25	20	20	65.00	42.50	40.00
1886—Aug. 23.....	90	75	50	35	30	22 $\frac{1}{2}$	32 $\frac{1}{2}$	29 $\frac{1}{2}$	23	23	25	20	20	65.00	42.50	40.00
1887—Jan. 1.....	90	75	50	35	30	25	32 $\frac{1}{2}$	29 $\frac{1}{2}$	23	23	25	20	20	65.00	42.50	40.00
	Rates (in cents per 100 pounds).													Rates per car.		
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat.	Rye and barley.	Corn and oats.	Cattle.	Hogs.	Sheep.
1887—Apr. 1 (new classification).	90	75	50	35	30	32 $\frac{1}{2}$	29 $\frac{1}{2}$	23	20	16	25	20	20	\$65.00	\$55.00	\$45.00
Aug. 1.....	90	75	50	35	30	32 $\frac{1}{2}$	29 $\frac{1}{2}$	23	20	16	22 $\frac{1}{2}$	20	20	65.00	45.00	45.00
Dec. 20.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	60.00	45.00	45.00
1888—Jan. 9.....	75	60	40	30	25	30	25	15	15	15	22 $\frac{1}{2}$	20	20	60.00	45.00	45.00
Mar. 26.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	60.00	45.00	45.00
Oct. 1.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	60.00	40.00	40.00
Oct. 25.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	*27 $\frac{1}{2}$	*25	*27 $\frac{1}{2}$
1889—July 16.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	*22	*25	*22
Dec. 21.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	*18	*25	*22
1890—Jan. 25.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	*12 $\frac{1}{2}$	*25	*22
Aug. 25.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	22 $\frac{1}{2}$	20	20	*22	*25	*25
Oct. 1.....	75	60	40	30	25	30	25	20	17 $\frac{1}{2}$	16	20	20	17	*22	*25	*25
1891—Jan. 1.....	75	60	42	30	25	30	25	20	17 $\frac{1}{2}$	16	20	20	17	*23 $\frac{1}{2}$	*22	*25
Jan. 15.....	75	60	42	30	25	30	25	20	17 $\frac{1}{2}$	16	23	20	(†)	*23 $\frac{1}{2}$	*22	*25

* In cents per 100 pounds.

† Corn 19 cents, oats 20 cents.

TABLE 71.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF IMPORTANT COMMODITIES FROM KANSAS CITY, MO., TO CHICAGO, ILL., FROM MAY 25, 1869.

Date.	Live hogs per car.	In cents per 100 pounds.			Date.	Live hogs per car.	In cents per 100 pounds.		
		Pack-ing-house prod-ucts.	Wheat.	Other grain.			Pack-ing-house prod-ucts.	Wheat.	Other grain.
1869—May 25 .....	.....	.....	44	34	1887—Feb. 1	\$42.50	25	25	20
1871—July 1 .....	.....	.....	40	35	Feb. 15	42.50	25	25	20
Nov. 1	\$94.00	.....	30	30	Apr. 1	55.00	25	25	20
1874—Apr. 20	70.00	.....	30	30	Aug. 1	45.00	25	22½	20
1879—Jan. 17	57.50	31	25	20	Dec. 20	45.00	20	22½	20
Feb. 1	57.50	31	25	20	1888—Jan. 9	45.00	20	22½	20
Mar. 1	47.50	25	25	20	Feb. 8	45.00	13	22½	10
Sept. 15	47.50	25	25	20	Feb. 9	35.00	12½	22½	10
Oct. 16	47.50	26½	25	20	Feb. 16	30.00	13	22½	10
Oct. 22	47.50	26½	25	20	Feb. 27	30.00	11	22½	10
Nov. 10	47.50	26½	28	23	Mar. 1	30.00	10	22½	10
1880—Apr. 17	47.50	25½	25	20	Mar. 26	45.00	20	22½	20
Apr. 21	47.50	25½	25	20	May 11	45.00	20	22½	20
Apr. 24	47.50	25½	25	20	June 29	40.00	20	22½	20
Nov. 8	47.50	26½	25	20	Oct. 1	40.00	20	22½	20
1881—Apr. 1	47.50	25½	25	20	Oct. 15	37.50	20	22½	20
July 23	47.50	25	25	20	1889—Apr. 1	37.50	20	22½	20
Dec. 20	47.50	25	25	20	May 25	37.50	20	22½	20
1882—Feb. 1	45.00	25	20	18.2	July 19	37.50	18	22½	20
Feb. 6	45.00	25	20	18.2	Nov. 1	33.00	18	22½	20
Mar. 13	47.50	25	21	16.1	1890—Mar. 3	33.00	18	22½	20
Apr. 1	50.00	25	25	20	Apr. 22	33.00	12	22½	20
Nov. 27	50.00	25	25	20	Aug. 25	37.50	18	22½	20
Dec. 1	50.00	27	25	20	Oct. 1	37.50	18	20	*20
1883—Jan. 1	42.50	27	25	20	1891—Jan. 1	33.00	22	20	*20
May 15	42.50	25	25	20	Jan. 15	33.00	22	23	†20
June 11	42.50	25	25	20					
Dec. 17	45.00	25	25	20					
1884—Jan. 15	42.50	25	25	20					
1885—Jan. 1	42.50	25	25	20					
1886—Jan. 1	42.50	25	25	20					
Aug. 23	42.50	22½	25	20					
Aug. 26	42.50	22½	25	20					
1887—Jan. 1	42.50	22½	25	20					
Jan. 10	42.50	25	25	20					

* Corn and oats, 17 cents.

† Corn, 19 cents.

RATES FROM MISSOURI RIVER POINTS TO ST. LOUIS, MO.

The following table shows the rates from the principal Missouri River points, such as Atchison, Kansas City, St. Joseph, and Leavenworth, to St. Louis, for classified traffic, the principal grain articles, and cattle, hogs, and sheep, the period covered being from 1877 to the present time. The freight classification governing these rates has changed at various times, and such changes have resulted in a lower classification of the articles taken under the class rates in this table. For the articles specially mentioned it may be seen exactly what changes have taken place.

The second table, although partially covering rates shown in the first, embraces also the rates for packing-house products, and shows the changes since January 17, 1879.

TABLE 72.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND VARIOUS COMMODITIES FROM ATCHISON, KANS., KANSAS CITY, MO., ST. JOSEPH, MO., AND LEAVENWORTH, KANS., TO ST. LOUIS, MO., VIA RAIL LINES, FROM JANUARY 2, 1877.

[Governed by Western classification.]

Date.	Rates (in cents per 100 pounds).													Rates per car.		
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Wheat.	Corn and oats.	Rye and barley.	Cattle.	Hogs.	Sheep.
1877—Jan. 2.....	60	45	30	25	.....	.....	.....	.....	.....	.....	25	17½	17½	\$50.00	\$50.00	\$37.50
May 1.....	60	45	30	25	.....	.....	.....	.....	.....	.....	25	18	18	50.00	50.00	37.50
June 1.....	60	45	30	25	.....	.....	.....	.....	.....	.....	25	18½	18½	50.00	50.00	37.50
July 12.....	60	45	30	25	.....	.....	.....	.....	.....	.....	23	16	16	50.00	50.00	37.50
Aug. 20.....	60	45	30	25	.....	.....	.....	.....	.....	.....	25	20	20	50.00	50.00	37.50
Sept. 7.....	60	45	30	25	.....	.....	.....	.....	.....	.....	24	19	19	50.00	50.00	37.50
Oct. 19.....	60	45	30	24	.....	.....	.....	.....	.....	.....	24	19	19	50.00	50.00	37.50
Nov. 1.....	60	45	30	24	.....	.....	.....	.....	.....	.....	24	19	19	50.00	50.00	33.00
1878—Jan. 12.....	60	45	30	20	.....	.....	.....	.....	.....	.....	24	16	16	50.00	50.00	33.00
Jan. 14.....	60	45	30	20	.....	.....	.....	.....	.....	.....	20	16	16	50.00	50.00	33.00
May 6.....	60	45	30	20	.....	.....	.....	.....	.....	.....	20	15	15	50.00	50.00	33.00
July 25.....	60	45	30	20	.....	.....	.....	.....	.....	.....	20	15	15	50.00	40.00	30.00
Nov. 18.....	60	45	30	25	.....	.....	.....	.....	.....	.....	20	15	15	50.00	40.00	30.00
Nov. 27.....	60	45	30	25	.....	.....	.....	.....	.....	.....	20	15	15	45.00	30.00	30.00
1879—Feb. 1.....	60	45	30	25	.....	.....	.....	.....	.....	.....	20	15	15	50.00	40.00	30.00
Feb. 10.....	60	45	30	20	.....	.....	.....	.....	.....	.....	20	15	15	50.00	40.00	30.00
1880—Apr. 5 (n e w classification).	60	45	30	20	20	20	20	15	22	20	20	15	15	50.00	40.00	30.00
Apr. 21.....	60	45	30	20	20	20	20	15	20	20	13	9	9	50.00	40.00	30.00
Apr. 24.....	60	45	30	20	20	20	20	15	20	20	10	7	7	50.00	40.00	30.00
Sept. 29.....	60	45	30	20	20	20	20	15	20	20	18	13	13	50.00	40.00	30.00
Oct. 27.....	60	45	30	20	20	20	20	15	20	20	20	15	15	50.00	40.00	30.00
Nov. 6.....	60	45	30	20	19	20	20	15	20	20	20	15	15	50.00	40.00	30.00
1881—Nov. 7.....	60	45	30	20	19	20	20	15	20	20	20	15	15	45.00	40.00	30.00
1882—Jan. 2.....	60	45	30	20	19	20	20	15	20	20	20	15	15	45.00	30.00	30.00
Feb. 1.....	60	45	30	20	19	20	20	15	20	20	17	15	15	45.00	30.00	30.00
Mar. 13.....	60	45	30	20	19	20	20	15	20	20	17	12½	12½	45.00	40.00	30.00
Apr. 1.....	60	45	30	20	19	20	20	15	20	20	20	15	15	47.50	40.00	30.00
Aug. 1.....	60	45	30	20	19	20	20	15	20	20	22½	17½	17½	47.50	40.00	30.00
Oct. 16.....	60	45	30	23	19	20	20	15	20	20	20	15	15	47.50	40.00	30.00
1883—Jan. 1.....	60	45	30	23	19	20	20	15	20	20	20	15	15	47.50	30.00	30.00

Date.	Rates (in cents per 100 pounds).												Rates per car.			
	1.	2.	3.	4.	5.	6.	A.	B.	C.	D.	Wheat.	Corn and oats.	Rye and barley.	Cattle.	Hogs.	Sheep.
1883—May 15 (n e w classification).	70	55	40	27	23	20	25	22	18	18	20	15	15	\$47.50	\$30.00	\$30.00
Nov. 12.....	70	55	40	27	23	20	25	22	18	18	20	15	15	47.50	32.50	30.00
Dec. 17.....	70	55	40	27	23	20	25	22	18	18	20	15	15	47.50	30.00	30.00
1884—June 2.....	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	30.00
June 16.....	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	25.00
1886—Aug. 23.....	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	25.00
1887—Jan. 1.....	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	25.00

TABLE 72.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND VARIOUS COMMODITIES, ETC.—Continued.

Date.	Rate (in cents per 100 pounds).												Rates per car.			
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat.	Corn and oats.	Rye and barley.	Cattle.	Hogs.	Sheep.
1887—Apr. 5 (new classification).	70	55	40	30	25	25	22	18	15	12	20	15	15	\$47.50	\$35.00	30.00
Aug. 1.....	70	55	40	30	25	25	22	18	15	12	17½	15	15	47.50	30.00	30.00
Dec. 20.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	42.50	30.00	30.00
1888—Jan. 9.....	55	40	30	25	20	22½	17½	10	10	10	17½	15	15	42.50	30.00	30.00
Mar. 26.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	42.50	30.00	30.00
Oct. 1.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	42.50	25.00	25.00
Oct. 25.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*18¾	*15	*20
1889—July 19.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*13¼	*21½	*14½
Dec. 21.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*9¼	*21½	*14½
1890—Jan. 30.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*7½	*21½	*14½
Aug. 25.....	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*18½	*21½	*21½
Oct. 1.....	55	40	30	25	20	22½	17½	15	12½	11	15	12	15	*18½	*21½	*21½
1891—Jan. 15.....	55	40	30	25	20	22½	17½	15	12½	11	18	†14	15	*18½	*21½	*21½
1892—Aug. 1.....	55	40	30	25	20	22½	17½	15	12½	11	18	†14	15	*14¾	*15	*17½

* Cents per 100 pounds.

† Oats, 15 cents.

TABLE 73.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF GRAIN AND MEAT PRODUCTS FROM KANSAS CITY, MO., TO ST. LOUIS, MO., FROM JANUARY 17, 1879.

Date.	Cents per 100 pounds.			Date.	Cents per 100 pounds.			Date.	Cents per 100 pounds.		
	Packing-house products.	Wheat.	Other grain.		Packing-house products.	Wheat.	Other grain.		Packing-house products.	Wheat.	Other grain.
1879—Jan. 17...	25	25	15	1883—June 11..	20	20	15	1888—June 29..	15	17½	15
Feb. 1....	25	25	15	Dec. 17..	20	20	15	Oct. 1..	15	17½	15
Mar. 1....	20	20	15	1884—Jan. 15..	20	20	15	Oct. 15..	15	17½	15
Sept. 15...	20	20	15	1885—Jan. 1..	20	20	15	1889—Apr. 1..	15	17½	15
Oct. 16...	20	20	15	1886—Jan. 1..	20	20	15	May 25..	15	17½	15
Oct. 22...	20	20	15	Aug. 23..	17½	20	15	July 19..	13	17½	15
Nov. 10...	20	20	15	Aug. 26..	17½	20	15	Nov. 1..	13	17½	15
1880—Apr. 17...	20	20	15	1887—Jan. 1..	17½	20	15	1890—Mar. 3..	13	17½	15
Apr. 21...	20	20	15	Jan. 10..	20	20	15	Apr. 23..	7	17½	15
Apr. 24...	20	20	15	Feb. 1..	20	20	15	Aug. 25..	13	17½	15
Nov. 8....	20	20	15	Feb. 15..	20	20	15	Oct. 1..	13	15	*15
1881—Apr. 1....	20	20	15	Apr. 1..	20	20	15	1891—Jan. 1..	15	15	*15
July 23...	20	20	15	Aug. 1..	20	17½	15	Jan. 15..	15	18	†15
Dec. 20...	20	20	15	Dec. 20..	15	17½	15				
1882—Feb. 1....	20	17	15	1888—Jan. 9..	15	17½	15				
Feb. 6....	20	17	15	Feb. 8..	9	17½	5				
Mar. 13...	20	17	12½	Feb. 11..	7½	17½	5				
Apr. 1....	20	20	15	Feb. 16..	6	17½	5				
Nov. 27...	20	20	15	Feb. 27..	6	17½	5				
Dec. 1....	20	20	15	Mar. 1..	6	17½	5				
1883—Jan. 1....	20	20	15	Mar. 26..	15	17½	15				
May 15...	20	20	15	May 11..	15	17½	15				

* Corn and oats, 12 cents.

† Corn, 14 cents.

GRAIN RATES FROM KANSAS AND NEBRASKA POINTS.

Below are given two tables showing changes in rates on wheat, corn, and other grain from Kansas and Nebraska points to Chicago. The first table begins with 1883, and shows the successive changes up to the present time from Nebraska points. In the second table will be found similar data from Kansas points, beginning with 1886.

An effort has been made to collect data which would show the changes in the through rates from Kansas and Nebraska to the seaboard. Owing to the fact that the rates from these localities to the seaboard are not published as through rates, it has been found impossible to compile these rates for a period sufficiently long to serve for the purposes of comparison. In explanation of the manner in which the through rates are determined it may be said that rates are published by the Western roads from Kansas and Nebraska to Chicago and to the Mississippi River. The rates to the Mississippi River are usually 5 cents per 100 pounds less than the rates to Chicago. The through rates to the Eastern seaboard are generally made on the combination of the rates east and west of the Mississippi River. It has been explained that the rates eastward from the Mississippi River to the seaboard are constructed upon a percentage basis of the Chicago rate; at present this percentage is 116. In order to ascertain the rates from the Mississippi River the tables showing the grain rates via all-rail from Chicago may be extended to apply from the Mississippi River by increasing them 16 per cent. By this process it is shown that a rate of 25 cents per 100 pounds all-rail from Chicago to New York is equivalent to 29 cents per 100 pounds from the Mississippi River to New York. The rates from Kansas and Nebraska to the Mississippi River, as above mentioned, may be obtained by deducting 5 cents from the Chicago rate. For example, the rate on corn from Lincoln, Nebr., to Chicago is at present 20 cents per 100 pounds; accordingly the rate to the Mississippi River would be 15 cents per 100 pounds. Combining the rates thus obtained east and west of the Mississippi River it is shown that the through rate from Lincoln, Nebr., to New York on corn would be 15 cents plus 29 cents, or 44 cents. This plan of computing the through rate would apply to traffic passing as through shipments from Western points to the seaboard for equal periods, and may be followed, if rates are to be obtained for even dates, in the table showing the eastward rates from Chicago (see Table 45, p. 118) and in the tables here given.

Traffic of this character may be taken to Chicago, and thence forwarded East via the lakes. In such cases it would be almost impossible to compute the through rate; there would always be doubt as to the proper charge eastward from Chicago. The method suggested will assist in arriving at through rates to the seaboard if such rates are desired for the all-rail routes.

TABLE 74.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND CORN FROM POINTS IN NEBRASKA NAMED TO CHICAGO, FROM JANUARY 1, 1883, TO THE PRESENT TIME.

Date.	Rates, in cents per 100 pounds.																	
	Wheat.									Corn.								
	Gilmore, Nebr.	Elkhorn, Nebr.	Lincoln, Nebr.	Beatrice, Nebr.	Fremont, Nebr.	Columbus, Nebr.	Cedar Rapids, Nebr.	Central City, Nebr.	Ord, Nebr.	Gilmore, Nebr.	Elkhorn, Nebr.	Lincoln, Nebr.	Beatrice, Nebr.	Fremont, Nebr.	Columbus, Nebr.	Cedar Rapids, Nebr.	Central City, Nebr.	Ord, Nebr.
1883—Jan. 1.....	35	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	.....	.....	.....	.....	.....
Feb. 1.....	35	.....	.....	.....	38	.....	.....	.....	.....	30	.....	.....	.....	33	.....	.....	.....	.....
Feb. 20.....	35	37	35	.....	38	.....	.....	.....	.....	30	32	30	.....	33	.....	.....	.....	.....
Apr. 16.....	35	37	35	.....	38	40	.....	.....	.....	30	32	30	.....	33	35	.....	.....	.....
1884—Jan. 10.....	35	37	35	.....	38	40	.....	43	.....	30	32	30	.....	33	33	38	.....	.....
1885—July 13.....	35	37	35	.....	38	40	45	43	.....	30	32	30	.....	33	33	40	.....	.....
Sept. 10.....	35	35	35	37	35	38	45	43	.....	30	30	30	32	30	33	40	38	.....
1886—Aug. 16.....	35	35	35	37	33	38	45	43	.....	30	30	30	32	28	33	40	38	.....
Aug. 19.....	35	35	35	37	33	38	45	43	43	30	30	30	32	28	33	40	38	38
Nov. 1.....	35	35	35	37	35	38	42	43	43	30	30	30	32	30	33	37	38	38
1887—Apr. 5.....	35	35	35	37	35	38	42	43	40	30	30	30	32	30	33	37	38	35
Apr. 7.....	27	27	31	31	30	34	38	39	40	22	22	26	27	25	29	33	34	35
June 6.....	27	27	28	30	28	29	30	30	33	22	22	23	25	23	24	25	25	28
Nov. 1.....	25	25	27	28	27	29	30	30	33	20	20	22	23	22	24	25	25	28
1890—June 16.....	25	25	27	28	27	29	31	30	33	20	20	22	23	22	24	26	25	28
July 17.....	25	25	25	26	25	26½	28½	27½	30	20	20	20	21	20	21½	23	22½	25
Oct. 24.....	20	21	22	22	22	24½	27	26	30	17	18	19	19	19	21½	23½	22	25
1891—Jan. 15.....	23	25	25	26	25	27	29	28	30	19	20	20	21	20	22	24	23	25

NOTE.—Between March 7 and 26, 1888, all through rates on grain were withdrawn, and rates were made on a combination of locals.

TABLE 75.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT, CORN, AND OATS FROM POINTS IN KANSAS AND NEBRASKA TO CHICAGO, ILL., FROM 1886 TO THE PRESENT TIME.

To Chicago, Ill., from—	Rates, in cents per 100 pounds.																					
	Wheat.						Corn.						Oats.									
	1886.	1887.	1888.	1889.	1890, prior to Oct. 20.	Oct. 20, 1890.	Jan. 15, 1891.	1886.	1887.	1888.	1889.	1890, prior to Feb. 20.	Feb. 20, 1890.	Oct. 20, 1890.	Jan. 15, 1891.	1886.	1887.	1888.	1889.	1890, prior to Feb. 20.	Feb. 20, 1890.	Jan. 15, 1891.
Abilene, Kans.....	38½	30	30	30	30	25	28	33	25	25	25	22½	21	23	33	25	25	25	25	21	23	23
Argonia, Kans.....	47½	44	35	35	35	28	33	36	33	30	30	30	25	24	28	36	33	30	30	30	24	28
Augusta, Kans.....	45	38½	31	31	31	26	30	34	32½	26	26	26	23½	22	25	34	32½	26	26	26	22	25
Belle Plaine, Kans.....	46½	39½	33	33	33	27	32	35	34	28	28	28	25	23	27	35	34	28	28	28	23	27
Beloit, Kans.....	...	30	30	30	30	25	28	...	25	25	25	22½	21	23	...	25	25	25	25	21	23	23
Benedict, Kans.....	...	32	31	31	31	26	27	...	26	26	26	26	23½	22	23	...	26	26	26	26	22	23
Burlington, Kans.....	37	37	30	30	30	25	28	30	30	25	25	25	22½	21	23	30	30	25	25	25	21	23
Chanute, Kans.....	34	34	31	30	30	25	27	27	27	26	25	25	22½	21	23	27	27	26	25	25	21	23
Cherokee, Kans.....	32½	31	28½	28½	28½	25	27	25	25	25	25	25	22½	21	23	25	25	25	25	25	21	23
Cherryvale, Kans.....	34	34	31	31	31	25	27	29	28	26	26	26	23½	22	23	29	28	26	26	26	22	23
Clearwater, Kans.....	...	39½	33	33	33	26	31	...	34	28	28	28	25	22	26	...	34	28	28	28	22	26
Coffeeville, Kans.....	38	35	32	32	32	26	27	31	28	27	27	27	24½	23	23	31	28	27	27	27	23	23
Colby, Kans.....	...	34	33	33	33	30	30	...	29	28	28	28	25	25	25	...	29	28	28	25	25	25
Colony, Kans.....	...	35	30	30	30	25	27	...	28	25	25	25	22½	21	23	...	28	25	25	25	21	23
Columbus, Kans.....	32½	32	30	30	30	25	27	25	26	26	26	26	23½	21	23	25	26	26	26	26	21	23
Coneordia, Kans.....	...	30	30	30	30	25	28	...	25	25	25	25	22½	21	23	...	25	25	25	25	21	23
Dodge City, Kans.....	52	45	37	37	37	30	34	45	37	32	32	32	25	25	27	45	37	32	32	32	25	27
Eldorado, Kans.....	43	38	31	31	31	26	30	34	32½	26	26	26	23½	22	25	34	32½	26	26	26	22	25
Elk City, Kans.....	41	35	32	32	32	27	29	31	28	27	27	27	24½	23	24	31	28	27	27	27	23	24
Emporia, Kans.....	41	35	30	30	30	25	28	32	31	25	25	25	22½	21	23	32	31	25	25	25	21	23
Eureka, Kans.....	43	35	31	31	31	26	30	34	31	26	26	26	23½	22	25	34	31	26	26	26	22	25
Fairbury, Nebr.....	40	35	29	29	29	23	27	32	30	24	24	24	21½	20	22	32	30	24	24	24	20	24
Fort Scott, Kans.....	30	29	27	27	27	25	25	25	23	23½	23½	23½	21	21	23	25	23	23½	23½	23½	21	23
Fredonia, Kans.....	...	32	31	31	31	26	29	...	26	26	26	26	23½	22	24	...	26	26	26	26	22	24
Garnett, Kans.....	32	32	29½	29½	29½	25	27	26	26	25	25	25	22½	21	23	26	26	25	25	25	21	23
Girard, Kans.....	31	31	28½	28½	28½	25	27	25	25	25	25	25	22½	21	23	25	25	25	25	25	21	23
Great Bend, Kans.....	45½	41½	32	32	32	27	31	34	34	27	27	27	24½	23	26	34	34	27	27	27	23	26
Hiawatha, Kans.....	35	27	25	25	25	20	23	28	22	20	20	20	20	17	19	28	22	20	20	20	17	19
Humboldt, Kans.....	35	35	31	30	30	25	27	28	28	26	25	25	22½	21	23	28	28	26	25	25	21	23
Hutchinson, Kans.....	45	40½	31	31	31	26	30	34	34	26	26	26	23½	22	25	34	34	26	26	26	22	25
Independence, Kans.....	37	34	31½	31½	31½	26	27	30	28	27	27	27	24½	22	23	30	28	27	27	27	22	23
Iola, Kans.....	34	34	31	30	30	25	27	27	27	26	25	25	22½	21	23	27	27	26	25	25	21	23
Kingman, Kans.....	47½	40	33	33	33	28	32	36	34	28	28	28	25	24	27	36	34	28	28	28	24	27
Kinsley, Kans.....	49	42½	37	37	37	30	33	40	35	32	32	32	25	25	27	40	35	32	32	32	25	27
Larned, Kans.....	47	42½	34½	34½	34½	30	32	37	35	29½	29½	29½	25	25	27	37	35	29½	29½	29½	25	27
Lenora, Kans.....	...	32	32	32	32	29	30	...	27	27	27	27	24½	24	25	...	27	27	27	27	24	25
Lyons, Kans.....	45½	40½	31	31	31	26	30	34	34	26	26	26	23½	22	25	34	34	26	26	26	22	25
McPherson, Kans.....	45	40½	31	31	31	26	30	34	34	26	26	26	23½	22	25	34	34	26	26	26	22	25
Mankato, Kans.....	...	30	30	30	30	25	28	...	25	25	25	25	22½	21	23	...	25	25	25	25	21	23
Manhattan, Kans.....	...	36½	29	29	29	23	27	...	31	24	24	24	21½	20	22	...	31	24	24	24	20	22
Marysville, Kans.....	27	35	29	28	28	22	26	32	30	24	23	23	20½	19	21	32	30	24	23	23	19	21
Mound Valley, Kans.....	...	34	31	31	31	25	27	...	28	26	26	26	23½	22	23	...	28	26	26	26	22	23
Neosho Falls, Kans.....	...	35	31	30	30	25	27	...	28	26	25	25	22½	21	23	...	28	26	25	25	21	23
Niota, Kans.....	...	36	32	32	32	27	30	...	28	27	27	27	24½	23	26	...	28	27	27	27	23	26
Norwich, Kans.....	...	40	33	33	33	28	32	...	34	28	28	28	25	24	27	...	34	28	28	28	24	27
Osage City, Kans.....	...	34½	29	29	29	23	27	...	30	24	24	24	21½	20	22	...	30	24	24	24	20	22
Ottawa, Kans.....	33½	32	28½	28½	28½	23	27	27	26	24	24	24	21½	20	22	27	26	24	24	24	20	22
Paola, Kans.....	35	30	27	27	27	23	25	24	24	24	23½	23½	21	20	22	24	24	24	23½	23½	20	22
Parsons, Kans.....	32½	32	30	30	30	25	27	25	26	25½	25	25	22½	21	23	25	26	25½	25	25	21	23
Pittsburg, Kans.....	32½	31	28½	28½	28½	25	27	25	25	25	25	25	22½	21	23	25	25	25	25	25	21	23
Pleasanton, Kans.....	...	32	29½	27	27	25	25	...	26	25	23½	23½	21	21	23	...	26	25	23½	23½	21	23
Pratt, Kans.....	...	43	36	36	36	29½	32	...	34	31	31	31	25	25	27	...	34	31	31	31	25	27
Sabetha, Kans.....	35	30	25	25	25	20	24	28	25	20	20	20	20	17	20	28	25	20	20	20	17	21
Salina, Kans.....	...	30	30	30	30	25	29	...	25	25	25	25	22½	21	24	...	25	25	25	25	21	25
Severy, Kans.....	44	36	31	31	31	26	30	34	31	26	26	26	23½	22	25	34	31	26	26	26	22	25
Scott City, Kans.....	...	46½	34	34	34	30	31	...	40	29	29	29	25	25	26	...	40	29	29	29	25	26
Seneca, Kans.....	37	32	27	27	27	21	25	30	27	22	22	22	20	18	21	30	27	22	22	22	18	22
Topeka, Kans.....	...	31½	29	29	29	23	27	...	28	24	24	24	21½	20	22	...	28	24	24	24	20	24
Walnut, Kans.....	32½	31	28																			

RATES ON GRAIN AND OTHER ARTICLES TRANSPORTED VIA THE MISSISSIPPI RIVER ROUTES.

Several tables are here presented showing the rates on grain, flour, pork, meats, and hay, carried by the river lines from St. Louis to the important river points south, to and including New Orleans.

A statement is also given showing the tonnage of grain carried from St. Louis to New Orleans via the Mississippi River boats from 1870 to 1892, inclusive.

TABLE 76.—AVERAGE FREIGHT RATES CHARGED DURING VARIOUS YEARS FOR THE TRANSPORTATION OF GRAIN IN SACKS, VIA STEAMERS, AND WHEAT, CORN, AND RYE, VIA BARGES FROM ST. LOUIS, MO., TO NEW ORLEANS, LA.

[Compiled from reports of St. Louis Merchants' Exchange.]

Year.	Rate in cents.				Year.	Rate in cents.			
	Grain in sacks (per 100 pounds).	Per bushel.				Grain in sacks (per 100 pounds).	Per bushel.		
		Wheat, in bulk.	Corn and rye.				Wheat, in bulk.	Corn and rye.	
			High water.	Low water.			High water.	Low water.	
1866			12 $\frac{3}{4}$	15 $\frac{3}{4}$	1885	15	6 $\frac{2}{5}$	5	7
1867			15 $\frac{1}{4}$	20 $\frac{1}{2}$	1886	16	6 $\frac{1}{2}$	5	7
1868			8 $\frac{7}{10}$	13 $\frac{3}{4}$	1887	18 $\frac{1}{2}$	6	5	7
1869			8 $\frac{2}{5}$	11 $\frac{1}{5}$	1888	15	6 $\frac{1}{2}$	5	7 $\frac{1}{2}$
1870			10 $\frac{3}{8}$	15 $\frac{7}{10}$	1889	17.93	5.95	5	7
1871			7 $\frac{1}{2}$	18 $\frac{1}{5}$	1890	15.66	6.58	5	7
1872			11	21 $\frac{2}{5}$	1891	16.28	6.88	5	7 $\frac{1}{2}$
1873			7	11	1892	16.87	6.50	5	7
1874			5 $\frac{1}{2}$	9					
1875			5 $\frac{3}{8}$	11 $\frac{1}{2}$					
1876			5 $\frac{3}{8}$	12 $\frac{3}{8}$					
1877	21	8 $\frac{1}{2}$	8	9					
1878	17 $\frac{1}{2}$	7 $\frac{1}{4}$	5	9					
1879	18	7 $\frac{3}{4}$	5	11					
1880	19	8 $\frac{1}{4}$	7	9 $\frac{1}{2}$					
1881	20	6	4	8					
1882	20	6 $\frac{5}{12}$	5 $\frac{1}{2}$	7					
1883	17 $\frac{3}{4}$	5 $\frac{1}{2}$	5	7					
1884	14	6 $\frac{5}{8}$	5	7					

TABLE 77.—SHOWING THE HIGHEST AND LOWEST FREIGHT RATES AND THAT CONTINUING FOR THE LONGEST PERIOD DURING EACH YEAR, CHARGED FOR THE TRANSPORTATION OF FLOUR, PORK, GRAIN, MEATS, AND HAY, FROM ST. LOUIS, MO., TO MEMPHIS, TENN., VICKSBURG, MISS., AND NEW ORLEANS, LA., VIA MISSISSIPPI RIVER STEAMERS, FROM 1866.

[Compiled from reports of St. Louis Merchants' Exchange.]

	Rates in cents.														
	Flour (per barrel).			Pork (per barrel).			Sack grain (per 100 pounds).			Meats (per 100 pounds).			Hay (per 100 pounds).		
	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.
1866—Highest.....	60	.....	150	125	.....	200	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest.....	50	.....	40	75	.....	60	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period.....	50	.....	70	75	.....	100	.....	.....	.....	.....	.....	.....	.....	.....	.....
1867—Highest.....	.....	.....	150	.....	.....	250	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest.....	.....	.....	40	.....	.....	60	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period.....	.....	.....	100	.....	.....	150	.....	.....	.....	.....	.....	.....	.....	.....	.....
1868—Highest.....	.....	.....	100	.....	.....	175	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest.....	.....	.....	20	.....	.....	40	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period.....	.....	.....	40	.....	.....	65	.....	.....	.....	.....	.....	.....	.....	.....	.....
1869—Highest.....	60	.....	75	100	.....	125	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest.....	30	.....	30	50	.....	50	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period.....	30	.....	45	50	.....	70	.....	.....	.....	.....	.....	.....	.....	.....	.....
1870—Highest.....	75	.....	125	125	.....	125	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest.....	10	.....	35	40	.....	50	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period.....	50	.....	50	75	.....	90	.....	.....	.....	.....	.....	.....	.....	.....	.....
1871—Highest.....	80	120	125	140	175	190	.....	.....	.....	.....	.....	.....	50	65	100
Lowest.....	25	30	25	40	45	40	.....	.....	.....	.....	.....	.....	25	25	25
Longest period.....	30	40	25	50	75	40	.....	.....	.....	.....	.....	.....	25	40	25
1872—Highest.....	75	110	125	110	175	190	.....	.....	.....	.....	.....	.....	45	75	75
Lowest.....	25	30	30	40	45	45	.....	.....	.....	.....	.....	.....	25	30	30
Longest period.....	30	40	40	50	65	60	.....	.....	.....	.....	.....	.....	40	40	35
1873—Highest.....	.....	.....	100	.....	.....	150	.....	.....	.....	.....	.....	.....	.....	.....	60
Lowest.....	.....	.....	25	.....	.....	37½	.....	.....	.....	.....	.....	.....	.....	.....	22½
Longest period.....	.....	.....	100	.....	.....	150	.....	.....	.....	.....	.....	.....	.....	.....	60
1874—Highest.....	.....	.....	70	.....	.....	105	.....	.....	.....	.....	.....	.....	.....	.....	40
Lowest.....	.....	.....	15	.....	.....	37½	.....	.....	.....	.....	.....	.....	.....	.....	17½
Longest period.....	.....	.....	35	.....	.....	50	.....	.....	.....	.....	.....	.....	.....	.....	20
1875—Highest.....	80	80	75	120	125	108	.....	.....	.....	.....	.....	.....	40	40	40
Lowest.....	20	20	20	30	30	30	.....	.....	.....	.....	.....	.....	15	15	15
Longest period.....	25	40	40	60	75	60	.....	.....	.....	.....	.....	.....	20	25	25
1876—Highest.....	80	90	80	115	132	132	.....	.....	.....	40	45	40	43	48	45
Lowest.....	20	25	20	30	37½	30	.....	.....	.....	12½	12½	10	15	15	15
Longest period.....	25	35	35	37½	50	50	.....	.....	.....	17½	17½	17½	22½	22½	22½
1877—Highest.....	50	60	60	70	90	90	25	35	35	25	35	35	30	35	35
Lowest.....	25	40	30	37½	60	52½	12½	20	15	12½	20	15	17½	25	20
Longest period.....	30	40	40	45	60	60	15	20	20	15	20	20	20	25	25
1878—Highest.....	100	100	70	150	150	75	50	50	35	50	50	35	30	35	30
Lowest.....	15	20	20	30	30	30	7½	10	10	7½	10	10	15	15	15
Longest period.....	15	20	20	30	30	30	7½	10	10	7½	10	10	15	15	15
1879—Highest.....	45	70	60	60	105	90	20	35	30	20	35	30	25	40	35
Lowest.....	20	25	20	30	45	30	10	15	10	10	15	10	15	20	15
Longest period.....	25	35	25	37½	52½	37½	12½	17½	12½	12½	17½	12½	17½	22½	17½
1880—Highest.....	45	60	50	60	90	75	51	30	25	20	30	25	25	35	30
Lowest.....	25	40	30	30	60	45	12½	20	15	15	20	15	17½	25	20
Longest period.....	40	40	30	60	60	45	20	20	15	20	20	15	25	25	20
1881—Highest.....	45	60	50	67½	90	75	22½	30	25	22½	30	25	27½	35	32½
Lowest.....	30	40	30	45	60	45	15	20	15	15	20	15	20	25	20
Longest period.....	30	60	45	45	90	67½	15	30	22½	17½	30	22½	20	35	27½
1882—Highest.....	35	60	50	52½	90	75	17½	30	25	17½	.....	.....	22½	35	30
Lowest.....	25	40	40	45	60	60	12½	20	20	15	.....	.....	17½	25	25
Longest period.....	25	40	40	45	60	60	12½	20	20	15	.....	.....	17½	25	25
1883—Highest.....	35	50	45	52½	75	67½	17½	25	22½	17½	25	22½	22½	30	27½
Lowest.....	25	40	25	37½	60	37½	12½	20	12½	12½	20	12½	17½	25	17½
Longest period.....	25	40	50	37½	75	60	12½	25	20	12½	25	20	17½	30	25
1884—Highest.....	30	45	45	35	67½	52½	15	22½	17½	15	22½	17½	20	27½	22½
Lowest.....	25	40	40	25	60	37½	13	20	12½	13	20	12½	17½	25	17½
Longest period.....	25	40	40	25	60	37½	13	20	12½	13	20	12½	18	25	17½
1885—Highest.....	30	45	35	45	67½	52½	15	22½	17½	15	22½	17½	17½	27½	22½
Lowest.....	30	45	30	45	67½	45	15	22½	15	15	22½	15	17½	27½	20
Longest period.....	30	45	35	45	67½	52½	15	22½	17½	15	22½	17½	17½	27½	22½
1886—Highest.....	30	40	35	45	60	52½	15	20	17½	15	20	17½	17½	25	22½
Lowest.....	20	35	30	30	52½	45	10	17½	15	10	17½	15	13	20	20
Longest period.....	24	35	35	36	52½	52½	12	17½	17½	12	17½	17½	13	20	22½

TABLE 77.—SHOWING THE HIGHEST AND LOWEST FREIGHT RATES, ETC.—Continued.

[Compiled from reports of St. Louis Merchants' Exchange.]

	Rates in cents.														
	Flour (per bar- rel.)			Pork (per bar- rel.)			Sack grain (per 100 pounds.)			Meats (per 100 pounds.)			Hay (per 100 pounds.)		
	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.
1887—Highest.....	40	40	40	60	60	60	20	20	20	20	20	20	25	25	22½
Lowest.....	20	35	35	30	52½	45	10	17½	15	10	17½	15	13	20	20
Longest period.	20	40	35	30	60	52½	10	20	17½	10	20	17½	13	22½	22½
1888—Highest.....	30	40	35	45	60	52½	15	20	17½	15	20	17½	17	20	20
Lowest.....	20	35	25	30	52½	37½	10	17½	12½	10	17½	12½	13	20	17½
Longest period.	20	35	35	30	52½	37½	10	17½	12½	10	17½	12½	13	20	20
1889—Highest.....	35	50	40	52½	75	60	17½	25	20	17½	25	20	22½	25	20
Lowest.....	20	40	35	37½	60	52½	10	17½	17½	10	20	17½	13	20	20
Longest period.	25	40	35	37½	60	52½	11	17½	17½	12½	20	17½	13	20	20
1890—Highest.....	25	40	35	37½	60	52½	12½	17½	17½	12½	17½	17½	15	20	20
Lowest.....	20	30	30	30	45	45	10	15	15	10	15	15	12½	17½	17½
Longest period.	20	40	30	30	52½	45	10	17½	15	10	17½	15	12½	20	17½
1891—Highest.....	40	50	40	60	75	60	20	25	20	20	25	20	22½	27½	22½
Lowest.....	20	35	30	30	52½	45	10	17½	15	10	17½	15	12½	20	17½
Longest period.	20	35	30	30	52½	45	10	17½	15	10	17½	15	12½	20	17½
1892—Highest.....	40	50	40	60	75	60	20	25	20	20	25	20	22½	34	22½
Lowest.....	20	35	30	30	52½	45	10	17½	15	10	17½	15	12	20	17½
Longest period.	20	35	35	30	52½	52½	10	17½	17½	10	17½	17½	12	20	20

TABLE 78.—STATEMENT SHOWING THE NUMBER OF BUSHEL OF THE DIFFERENT VARIETIES OF BULK GRAIN AND THE TOTAL OF ALL GRAIN SHIPPED FROM ST. LOUIS TO NEW ORLEANS VIA MISSISSIPPI RIVER BOATS DURING EACH YEAR FROM 1870.

[Compiled from reports of St. Louis Merchants' Exchange.]

Year.	Wheat.	Corn.	Rye.	Oats.	Total.
	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
1870	66,000	.....	.....	.....	66,000
1871 .....	.....	309,077	.....	3,000	312,077
1872 .....	.....	1,711,039	.....	.....	1,711,039
1873 .....	.....	1,373,969	.....	.....	1,373,969
1874	365,252	1,047,794	.....	10,000	1,423,046
1875	135,961	172,617	.....	.....	308,578
1876	37,142	1,737,237	.....	.....	1,774,379
1877	351,453	3,578,057	171,843	.....	4,101,353
1878	1,876,639	2,857,056	609,041	108,867	5,451,603
1879	2,390,897	3,585,589	157,424	30,928	6,164,838
1880	5,913,272	9,804,392	45,000	.....	15,762,664
1881	4,197,981	8,640,720	22,423	132,823	12,993,947
1882	5,637,391	2,529,712	15,994	150,320	8,333,417
1883	1,435,043	9,029,509	205,430	389,826	11,059,508
1884	1,318,688	4,496,785	341,864	487,221	6,647,556
1885	50,000	8,180,039	36,093	401,787	8,667,919
1886	743,439	7,501,730	.....	598,755	8,834,924
1887	3,973,737	7,365,340	.....	217,722	11,556,799
1888	1,247,952	5,844,042	.....	160,584	7,252,578
1889	1,651,950	12,398,955	17,432	89,707	14,158,046
1890	1,409,440	8,717,849	.....	89,960	10,217,244
1891	6,940,215	1,482,731	45,600	.....	8,468,546
1892	5,149,708	3,228,645	.....	36,857	8,415,211

RATES ON CLASSIFIED TRAFFIC AND COMMODITIES BETWEEN VARIOUS SOUTHERN POINTS.

An effort has been made to procure the changes between such points in the territory south of the Ohio River as will represent the principal competitive traffic. The Southern Railway and Steamship Association classification applies throughout this section. This classification is so arranged that the lower or lettered classes embrace only one commodity, the tables are accordingly worded to show these articles separately and the changes which have taken place in the rates of each.

TABLE 79.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., TO CHATTANOOGA, TENN., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel.)		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15.....	95	83	72	46	41	39	32	42	41	38	42	.....	76	115
Apr. 1.....	95	83	72	46	41	39	37	42	41	38	42	46	76	115
Sept. 19.....	98	86	75	56	48	42	41	37	35	31	41	56	61	131
Nov. 15.....	98	86	75	56	48	42	46	42	40	36	41	56	71	146
1880—Apr. 8.....	101	87	74	60	51	40	36	44	41	37	50	61	75	160
Sept. 1.....	107	94	80	69	56	45	30	44	41	37	48	65	77	132
1881—May 5.....	107	94	80	69	56	45	36	44	41	37	48	65	77	132
Sept. 1.....	90	80	70	61	52	44	37	40	35	33	52	61	68	129
Oct. 1.....	87	78	70	61	52	43	26	38	34	32	50	59	65	117
Nov. 25.....	87	78	70	61	52	43	36	43	39	37	55	64	75	133
1882—Jan. 1.....	87	78	70	61	52	43	36	43	39	37	50	59	75	133
Apr. 12.....	102	90	75	60	52	43	31	38	34	30	42	50	61	109
July 10.....	102	90	75	60	52	43	31	33	29	25	42	50	51	99
1883—May 1.....	119	102	84	66	55	44	31	42	22	30	48	55	61	126
June 15.....	119	102	84	66	55	44	31	42	32	30	48	55	61	122
1884—Feb. 17.....	111	94	81	66	54	43	27	35	30 $\frac{1}{2}$	27	44	53	57	103
Mar. 3.....	112	95	82	66	54	43	27	35	30 $\frac{1}{2}$	27	44	53	57	103
Apr. 10.....	95	88	81	63	52	43	27	24	29 $\frac{1}{2}$	24	42	48	51	99
1885—Feb. 18.....	104	88	77	62	52	43	27	34	28 $\frac{1}{2}$	24	42	48	51	84
July 15.....	104	88	77	62	52	43	27	34	29	24	42	48	52	84
1887—July 15.....	106	90	79	64	54	45	29	36	32	26	44	50	56	*36
1888—Jan. 23.....	104	88	77	62	52	43	27	34	30	24	42	48	52	*34
Sept. 30.....	104	88	77	62	52	43	27	34	30	24	42	47	52	*34
1889—Oct. 14.....	104	88	77	62	52	40	27	34	30	24	42	43	52	*34
Mar. 1.....	104	88	77	61	52	40	27	34	32	26	42	43	56	*34
1891—Mar. 31.....	104	88	77	61	52	40	27	34	30	24	42	43	52	*34

*Cents per 100 pounds.

TABLE 80.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	133	115	97	79	66	52	49	53	54	49	58	.....	98	185
Nov. 15.....	133	115	97	79	66	52	54	58	59	54	58	79	107	200
1880—Apr. 8.....	133	115	97	79	66	52	47	58	53	48	65	80	97	196
Sept. 1.....	140	123	105	90	72	54	33	55	51	45	61	84	96	163
1881—Sept. 1.....	118	105	92	80	68	57	47	51	45	42	67	81	87	162
Oct. 1.....	115	103	92	80	68	56	34	48	43	40	64	75	83	148
Nov. 25.....	115	103	92	80	68	56	40	53	48	45	69	80	93	164
1882—Jan. 1.....	115	103	92	80	68	56	40	53	48	45	64	75	93	164
Apr. 12.....	130	115	97	79	68	56	41	51	46	42	61	66	84	153
July 10.....	130	115	97	79	68	56	39	44	39	35	59	66	70	132
Sept. 1.....	153	132	110	87	72	57	39	57	42	40	63	73	80	171
1883—May 1.....	153	132	110	87	72	57	39	50	42	40	63	73	80	150
June 15.....	153	132	110	87	72	57	39	50	42	40	63	73	80	146
July 15.....	153	132	110	87	72	57	39	48	40	38	61	71	76	140
1884—Feb. 17.....	145	124	107	87	71	56	35	46	39½	36	58	70	75	136
Mar. 3.....	146	125	108	87	71	56	35	46	39½	36	58	70	75	136
Apr. 10.....	135	115	101	82	68	56	35	44	38½	32	56	63	67	130
1885—Feb. 18.....	135	115	101	82	68	56	35	44	37½	32	56	63	67	108
July 15.....	135	115	101	82	68	56	35	44	38	32	56	63	68	108
1887—July 15.....	137	117	103	84	70	58	37	46	40	34	58	65	72	*46
1888—Jan. 23.....	135	115	101	82	68	56	35	44	38	32	56	63	68	*44
1891—Oct. 15.....	135	115	101	82	68	56	35	43	35	29	56	63	62	43

* Cents per 100 pounds.

TABLE 81.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM JANUARY 15, 1879.

Date.	Rate (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood,	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15.....	207	167	135	84	83	72	64	64	62	56	64	.....	112	220
Apr. 1.....	162	127	100	63	61	52	59	62	60	54	62	73	108	210
Sept. 19.....	165	130	103	73	59	50	57	60	60	55	65	70	104	206
Nov. 15.....	165	130	103	73	59	50	67	70	70	65	65	70	124	236
1880—Feb. 1.....	165	130	103	73	59	50	62	65	65	60	60	70	114	220
Apr. 8.....	165	125	100	85	70	60	63	65	60	55	70	70	104	223
Sept. 1.....	165	125	100	85	70	60	53	55	52	50	70	75	94	183
1881—Apr. 15.....	165	125	100	85	70	60	61	58	47	47	73	78	88	199
May 5.....	165	125	100	85	70	60	61	58	52	52	73	78	98	199
Sept. 1.....	145	120	100	85	70	60	49	53	47	44	70	83	91	169
Nov. 25.....	131	108	90	77	63	53	46	46	42	42	67	71	82	150
1882—Apr. 20.....	130	115	97	79	68	56	50	45	41	37	51	51	74	126
July 10.....	130	115	97	79	68	56	50	40	36	32	51	51	64	120
Sept. 1.....	130	110	97	84	71	57	50	49	44	42	64	84	84	147
1883—May 1.....	130	110	97	84	71	57	50	42	37	36	51	51	70	126
June 15.....	130	110	97	84	71	57	46	42	37	36	51	51	70	122
1884—Feb. 17.....	122	102	94	84	70	56	42	40	36 $\frac{1}{2}$	30	48	50	69	118
Mar. 3.....	123	103	95	84	70	56	42	40	36 $\frac{1}{2}$	30	48	69	69	118
Apr. 10.....	123	103	95	84	70	56	42	40	36 $\frac{1}{2}$	30	48	50	63	118
1885—Feb. 18.....	123	103	95	84	70	56	42	40	35 $\frac{1}{2}$	30	48	63	63	99
July 15.....	123	103	95	84	70	56	42	40	35 $\frac{1}{2}$	30	48	50	63	99
Nov. 2.....	123	103	95	84	70	56	42	40	36	30	48	50	64	99
1887—July 15.....	125	105	97	86	72	58	44	42	38	32	50	52	68	*42
1888—Jan. 23.....	123	103	95	84	70	56	42	40	36	30	48	50	64	*40
Sept. 30.....	123	103	95	84	70	56	42	40	31	25	48	50	54	*40
1889—Oct. 14.....	123	103	95	84	70	56	42	43	37	31	48	50	66	*43
1890—Mar. 1.....	123	103	95	84	70	56	42	43	39	33	48	50	70	*43
1891—Oct. 15.....	123	103	95	84	70	56	42	43	34	28	48	50	60	*43

* Cents per 100 pounds.

TABLE 82.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., TO JACKSONVILLE, FLA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15.....	238	192	154	96	95	87	72	75	72	65	75	.....	130	257
Jan. 15.....	213	167	129	81	80	72	57	65	62	55	65	.....	110	225
Apr. 1.....	193	152	119	75	73	67	67	73	70	63	73	.....	126	247
Sept. 19.....	165	130	103	73	59	50	47	50	50	45	55	60	84	174
Nov. 15.....	165	130	103	73	59	50	57	60	60	55	55	60	104	204
1880—Apr. 8.....	165	125	100	85	70	60	58	60	55	50	65	70	94	237
Sept. 1.....	165	125	100	85	70	60	53	60	57	55	78	78	105	212
1881—May 5.....	175	134	108	92	76	65	66	63	57	57	78	83	108	215
Sept. 1.....	155	129	108	92	76	65	54	58	62	49	75	88	101	185
Nov. 25.....	141	117	98	84	69	58	51	51	47	47	72	76	92	166
1882—Apr. 20.....	140	124	105	86	74	61	55	50	46	42	56	56	84	142
July 10.....	140	124	105	86	74	61	55	50	46	42	56	56	84	150
Sept. 1.....	140	119	105	91	77	62	55	54	49	47	69	68	94	162
1883—May 1.....	140	119	105	91	77	62	55	47	42	41	56	56	80	141
1884—Jan. 15.....	140	119	105	91	77	62	51	47	42	41	56	56	80	137
Feb. 17.....	132	111	102	91	76	61	47	45	41 $\frac{1}{2}$	35	53	55	79	133
Mar. 3.....	133	112	103	91	76	61	47	45	41 $\frac{1}{2}$	35	53	55	79	133
Apr. 10.....	123	103	95	84	70	56	42	40	36 $\frac{1}{2}$	30	48	50	63	118
1885—Feb. 18.....	123	103	95	84	70	56	42	40	35 $\frac{1}{2}$	30	48	50	63	99
July 15.....	125	103	95	84	70	56	42	40	36	30	48	50	64	99
1887—July 15.....	123	105	97	86	72	58	44	42	38	32	50	52	68	*42
1888—Jan. 23.....	123	103	95	84	70	56	42	40	36	30	48	50	64	*40
1889—Oct. 14.....	123	103	95	84	70	56	42	43	37	31	48	50	66	*43
1890—Mar. 1.....	123	103	95	84	70	56	42	43	39	33	48	50	70	*43
1891—Oct. 15.....	123	103	95	84	70	56	42	43	34	28	48	50	60	*43

* Cents per 100 pounds.

TABLE 83.—REIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	115	100	86	58	51	48	46	50	48	45	50	58	90	137
Sept. 19.....	115	100	86	65	55	48	45	42	39	35	46	65	70	141
Nov. 15.....	115	100	86	65	55	48	50	47	44	40	46	65	80	156
1880—Apr. 8.....	118	101	85	69	58	46	40	49	45	41	55	70	83	172
Sept. 1.....	124	108	91	78	63	51	34	49	45	41	53	74	86	142
1881—May 5.....	124	108	91	78	63	51	42	49	45	41	53	74	86	142
Oct. 1.....	101	91	80	69	59	48	30	42	37	34	57	67	72	125
Nov. 25.....	101	91	80	69	59	48	42	47	42	39	62	72	82	141
1882—Jan. 1.....	101	91	80	69	59	48	42	47	42	39	57	67	82	141
Apr. 12.....	117	100	83	66	56	47	35	42	38	34	46	54	69	121
July 10.....	117	100	83	66	56	47	35	37	33	29	46	54	59	111
1883—May 3.....	134	112	92	72	59	48	35	46	36	34	52	59	69	138
June 15.....	134	112	92	72	59	48	35	46	36	34	52	59	69	134
1884—Feb. 17.....	134	112	92	72	59	48	35	41	35	32	51	58	64	119
Apr. 10.....	126	105	87	68	57	48	35	40	34	29	49	53	58	115
1885—Feb. 18.....	126	105	87	68	55	46	33	40	34	29	49	53	58	102
1886—Mar. 1.....	126	105	87	68	55	46	33	40	34	29	49	53	58	*40
1888—Jan. 23.....	116	99	82	65	55	45	32	38	34	29	47	53	58	*38
Sept. 30.....	116	99	82	65	55	45	32	38	34	29	47	52	58	*38
1889—Oct. 14.....	116	99	82	65	55	42	32	38	34	29	47	48	58	*38
1890—Mar. 1.....	116	99	82	64	55	42	32	38	35	31	47	48	62	*38
1891—Mar. 31.....	116	99	82	64	55	42	32	38	33	29	47	48	58	*38

* Cents per 100 pounds.

TABLE 84.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel.)		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	150	129	108	88	73	58	53	58	58	53	63	88	106	195
Nov. 15.....	150	129	108	88	73	58	58	63	63	58	63	.....	116	210
Sept. 8.....	150	129	108	88	73	58	51	63	57	52	70	.....	105	208
1880—Sept. 1.....	155	135	116	99	79	60	36	61	56	49	68	.....	105	179
1881—May 5.....	155	135	116	99	79	60	43	61	56	49	68	92	105	179
Oct. 1.....	129	116	102	88	75	61	38	52	46	42	71	83	90	156
Nov. 25.....	129	116	102	88	75	61	43	57	51	47	76	88	100	172
1882—Jan. 1.....	129	116	102	88	75	61	43	57	51	47	71	83	100	172
Apr. 12.....	145	125	105	85	72	60	45	55	50	46	65	72	92	165
July 10.....	145	125	105	85	72	60	43	48	43	39	63	70	78	144
Sept. 1.....	168	142	118	93	76	61	43	61	46	44	67	88	88	183
1883—May 1.....	168	142	118	93	76	61	43	54	46	44	67	77	88	162
June 15.....	168	142	118	93	76	61	43	54	46	44	67	77	88	158
July 15.....	168	142	118	93	76	61	43	52	44	42	65	75	84	152
1884—Feb. 17.....	168	142	118	93	76	61	43	52	44	41	65	75	82	152
Apr. 10.....	157	132	111	88	73	61	43	50	43	37	63	68	74	146
1885—Feb. 18.....	157	132	111	88	71	59	41	50	43	37	63	68	74	126
1886—Mar. 1.....	157	132	111	88	71	59	41	50	43	37	63	68	74	*50
1888—Jan. 15.....	147	126	106	85	71	58	40	48	42	37	61	68	74	*48
1889—Oct. 14.....	147	126	106	85	71	58	40	50	44	39	63	70	78	*50
1890—Mar. 1.....	147	126	106	85	71	58	40	48	41	37	61	68	74	*48
1891—Oct. 15.....	147	126	106	85	71	58	40	47	38	34	61	68	68	*47

* Cents per 100 pounds.

TABLE 85.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO CHARLESTON S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	162	127	100	63	61	52	59	62	60	54	62	73	108	210
Sept. 19.....	162	127	100	70	56	47	54	57	57	52	52	67	99	194
Nov. 15.....	162	127	100	63	61	52	64	67	67	62	62	67	119	224
1880—Feb. 1.....	162	127	100	70	56	47	59	62	62	57	57	62	109	208
Apr. 8.....	162	127	97	82	67	57	60	62	57	52	67	72	99	211
Sept. 1.....	162	122	97	82	67	57	50	52	49	47	67	72	89	171
1881—Apr. 15.....	162	122	97	82	67	57	58	55	44	44	70	75	83	187
May 5.....	162	122	97	82	67	57	58	55	49	49	70	75	93	187
Oct. 1.....	142	117	97	82	67	57	46	50	44	41	67	80	86	157
Nov. 25.....	142	117	97	82	67	57	47	47	42	42	70	75	84	150
1882—Apr. 20.....	145	125	105	85	72	60	54	49	45	41	55	55	82	138
July 10.....	145	125	105	85	72	60	54	44	40	36	55	72	72	132
Sept. 1.....	145	120	105	90	75	61	54	53	48	46	68	68	92	159
1883—May 1.....	145	120	105	90	75	61	54	46	41	40	55	78	78	138
June 15.....	145	120	105	90	75	61	54	46	41	40	55	55	78	134
1884—Feb. 17.....	145	120	105	90	75	61	50	46	35	40	55	55	76	134
Mar. 3.....	145	120	105	90	75	61	50	46	41	35	55	55	76	134
Apr. 10.....	145	120	105	90	75	61	50	46	41	35	55	55	70	134
1885—Feb. 18.....	145	120	105	90	73	59	48	46	41	35	55	55	70	115
July 15.....	145	120	105	90	73	59	48	46	41	35	55	55	70	117
1886—Mar. 1.....	145	120	105	90	73	59	48	46	41	35	55	55	70	*46
1888—Jan. 23.....	135	114	100	87	73	58	47	44	40	35	53	55	70	*44
Sept. 30.....	135	114	100	87	73	58	47	44	35	30	53	55	60	*44
1889—Oct. 14.....	135	114	100	87	73	58	47	47	40	36	53	55	72	*47
1890—Mar. 1.....	135	114	100	87	73	58	47	47	42	38	53	55	76	*47
1891—Oct. 15.....	135	114	100	87	73	58	47	47	37	33	53	55	66	*47

*Cents per 100 pounds.

TABLE 86.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO JACKSONVILLE, FLA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	193	152	119	75	73	67	67	73	70	63	73	85	126	247
Sept. 19.....	162	127	100	70	56	47	44	47	47	42	52	57	79	162
Nov. 15.....	162	127	100	70	56	47	54	57	57	52	52	57	99	192
1880—Sept. 1.....	162	122	97	82	67	57	50	57	54	52	75	75	100	200
Sept. 8.....	162	122	97	82	67	57	55	57	52	47	62	67	89	195
1881—May 5.....	172	131	105	89	73	62	63	60	54	54	75	80	103	203
Oct. 1.....	152	126	105	89	73	62	51	55	49	46	72	83	96	175
Nov. 25.....	152	126	105	89	73	62	52	52	47	47	75	80	94	166
1882—Apr. 20.....	155	134	113	92	78	65	59	54	50	46	60	60	92	154
July 10.....	155	134	113	92	78	65	59	54	50	46	60	60	92	162
Sept. 1.....	155	129	113	97	81	66	59	58	53	51	73	73	102	174
1883—May 1.....	155	129	113	97	81	66	59	51	46	45	60	60	88	153
June 15.....	155	129	113	97	81	66	55	51	46	45	60	60	88	149
1884—Feb. 17.....	155	129	113	97	81	66	55	51	46	40	60	60	86	149
Apr. 10.....	145	120	105	90	75	61	50	46	41	35	55	55	70	134
1885—Feb. 18.....	145	120	105	90	73	59	48	46	41	35	55	55	70	115
July 15.....	145	120	105	90	73	59	48	46	41	35	55	55	70	117
1886—Mar. 1.....	145	120	105	90	73	59	48	46	41	35	55	55	70	*46
1888—Jan. 23.....	135	114	100	87	73	58	47	44	40	35	53	55	70	*44
1889—Oct. 14.....	135	114	100	87	73	58	47	47	40	36	53	55	72	*47
1890—Mar. 1.....	135	114	100	87	73	58	47	47	42	38	53	55	76	*47
1891—Oct. 15.....	135	114	100	87	73	58	47	47	37	33	53	55	68	*47

* Cents per 100 pounds.

TABLE 87.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	95	83	72	46	41	39	37	42	41	38	42	46	76	115
Sept. 19.....	95	83	72	53	45	39	38	34	32	28	38	53	56	119
Nov. 15.....	95	83	72	53	45	39	43	39	37	33	38	53	66	134
1880—Apr. 8.....	78	67	57	45	58	28	26	33	31	27	39	46	55	128
Sept. 1.....	84	74	63	54	43	33	20	33	31	27	37	50	58	98
1881—May 5.....	84	74	63	54	43	33	24	33	31	27	37	50	58	98
Sept. 1.....	67	60	53	46	39	32	24	27	24	22	37	43	47	82
Oct. 1.....	67	60	53	46	39	32	20	28	25	23	38	45	48	84
Nov. 25.....	67	60	53	46	39	32	24	33	30	28	43	50	58	100
1882—Jan. 1.....	67	60	53	46	39	32	24	33	30	28	38	45	58	100
Apr. 12.....	67	60	53	46	39	32	20	28	26	23	31	39	47	83
July 10.....	67	60	53	46	39	32	20	23	21	18	31	39	37	69
1883—May 1.....	84	72	62	52	42	33	20	32	24	23	37	44	47	96
1884—Feb. 17.....	84	72	62	52	42	33	20	27	23	22	36	44	44	81
Mar. 3.....	84	72	62	52	42	33	20	27	23	22	36	43	44	81
Apr. 10.....	76	65	57	48	40	33	20	26	22	19	34	38	38	77
1885—Feb. 18.....	76	65	57	48	40	33	20	26	22	19	34	38	38	62
1886—Mar. 1.....	76	65	57	48	40	33	20	26	22	19	34	38	38	*26
1887—July 15.....	76	65	57	48	40	33	20	26	23	19	34	38	38	*26
1888—Sept. 30.....	76	65	57	48	40	33	20	26	23	19	34	37	38	*26
1889—Oct. 14.....	76	65	57	48	40	30	20	26	23	19	34	33	38	*26
1890—Mar. 1.....	76	65	57	47	40	30	20	26	25	21	34	33	42	*26
1891—Mar. 31.....	76	65	57	47	40	30	20	26	23	19	34	33	38	*26

*Cents per 100 pounds.

TABLE 88.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	(Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Besf and pork in barrels.
1879—Sept. 19.....	130	112	94	76	63	49	46	50	51	46	55	76	92	170
Nov. 15.....	130	112	94	76	63	49	51	55	56	51	55	76	102	188
1880—Apr. 8.....	110	95	80	64	53	40	37	47	43	38	54	65	77	180
Sept. 1.....	119	104	89	76	61	46	28	47	43	38	52	71	81	130
1881—May 5.....	119	104	89	76	61	46	36	50	46	40	55	75	86	146
Sept. 1.....	95	85	75	65	55	45	34	38	34	31	52	61	66	115
Oct. 1.....	95	85	75	65	55	45	28	38	34	31	52	61	66	115
Nov. 25.....	95	85	75	65	55	45	34	43	39	36	57	66	76	131
1882—Jan. 1.....	95	85	75	65	55	45	36	44	40	37	53	62	78	134
Apr. 12.....	95	85	75	65	55	45	30	41	38	35	50	57	70	127
July 10.....	95	85	75	65	55	45	28	34	31	28	48	55	56	102
Sept. 1.....	118	102	88	73	59	46	28	47	34	33	52	62	66	141
1883—May 1.....	118	102	88	73	59	46	28	40	34	33	52	62	66	120
July 15.....	118	102	88	73	59	46	28	38	32	31	50	60	62	114
1885—Feb. 18.....	107	92	81	68	56	46	28	36	31	27	48	53	54	86
1891—Oct. 15.....	107	92	81	68	56	46	28	35	28	24	48	53	48	*35

*Cents per 100 pounds.

TABLE 89.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	142	112	88	56	55	45	53	60	58	52	60	66	104	202
Sept. 19.....	154	121	94	68	54	45	52	55	55	50	60	65	95	187
Nov. 15.....	154	121	94	68	54	45	62	65	65	60	60	65	115	217
1880—Feb. 1.....	154	121	94	68	54	45	57	60	60	55	55	60	105	201
Sept. 1.....	146	110	88	74	60	51	45	47	43	43	61	.....	81	157
Sept. 8.....	142	105	85	70	57	48	53	54	50	45	59	60	85	189
1881—Apr. 15.....	146	110	88	74	60	51	53	50	40	40	64	69	75	173
May 5.....	146	110	88	74	60	51	53	50	45	45	64	69	85	173
Sept. 1.....	129	107	88	74	60	51	36	40	36	33	55	65	70	122
Nov. 25.....	112	93	78	66	53	44	38	38	35	35	58	62	69	124
1882—Jan. 1.....	112	93	78	66	53	44	38	38	35	35	58	69	69	124
Apr. 20.....	95	85	75	65	55	45	35	35	33	30	40	40	60	100
July 10.....	95	85	75	65	55	45	35	30	28	25	40	40	50	90
Sept. 1.....	95	80	75	70	58	46	35	39	36	35	52	52	70	117
1883—May 1.....	95	80	75	70	58	46	35	32	29	29	40	40	56	96
1884—Feb. 17.....	95	80	75	70	58	46	35	32	29	25	40	40	56	96
1885—Feb. 17.....	95	80	75	70	58	46	35	32	29	25	40	40	50	77
1886—Mar. 1.....	95	80	75	70	58	46	35	32	29	25	40	40	50	*32
1888—Sept. 30.....	95	80	75	70	58	46	35	52	24	20	40	40	40	*32
1889—Oct. 14.....	95	80	75	70	58	46	35	35	30	26	40	40	52	*35
1890—Mar. 1.....	95	80	75	70	58	46	35	35	32	28	40	40	56	*35
1891—Oct. 15.....	95	80	75	70	58	46	35	35	27	23	40	40	46	*35

* Cents per 100 pounds.

TABLE 90.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO JACKSONVILLE, FLA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	173	137	107	68	67	60	61	71	68	61	71	78	122	239
Sept. 19.....	154	121	94	68	54	45	42	45	45	40	50	55	75	155
Nov. 15.....	154	121	94	68	54	45	52	55	55	50	50	55	95	185
1880—Feb. 1.....	154	121	94	68	54	45	52	55	55	50	50	55	95	185
Apr. 8.....	142	105	83	70	57	48	48	49	45	40	54	55	75	173
Sept. 1.....	146	110	88	74	60	51	45	52	50	48	69	69	92	186
1881—May 5.....	156	119	96	81	66	56	58	55	50	50	69	74	95	189
Sept. 1.....	139	116	96	81	67	56	41	45	41	38	60	70	80	138
Nov. 25.....	122	102	86	73	59	49	43	43	40	40	63	67	79	140
1882—Apr. 20.....	105	94	83	72	61	50	44	40	38	35	45	45	70	116
July 10.....	105	94	83	72	61	50	44	40	38	35	45	45	70	120
Sept. 1.....	105	89	83	77	64	51	40	44	41	40	57	57	80	132
1883—May 1.....	105	89	83	77	64	51	40	37	34	34	40	45	66	111
June 15.....	105	89	83	77	64	51	40	37	34	34	45	45	66	111
1884—Feb. 17.....	105	89	83	77	64	51	40	37	34	30	45	45	66	111
Apr. 10.....	95	80	75	70	58	46	35	32	29	25	40	40	50	96
1885—Feb. 18.....	95	80	75	70	58	46	35	32	29	25	40	40	50	77
1886—Mar. 1.....	95	80	75	70	58	46	35	32	29	25	40	40	50	*32
1888—Oct. 14.....	95	80	75	70	58	46	35	35	30	26	40	40	52	*35
1890—Mar. 1.....	95	80	75	70	58	46	35	35	32	28	40	40	56	*35
1891—Oct. 15.....	95	80	75	70	58	46	35	35	27	23	40	40	46	*35

* Cents per 100 pounds.

TABLE 91.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO CHATTANOOGA, TENN., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1878—Aug. 27.....	100	95	80	55	45	....	38	38	34	35	.....	.....	70	110
1879—Jan. 15.....	75	66	58	34	31	30	25	34	34	31	34	.....	62	93
Apr. 1.....	75	66	58	34	31	30	30	34	34	31	34	34	62	93
Sept. 19.....	75	66	58	41	35	30	31	26	25	21	30	41	42	97
Nov. 15.....	75	66	58	41	35	30	36	31	30	26	30	41	52	112
1880—Apr. 8.....	78	67	57	45	38	28	26	33	31	27	39	46	55	128
Sept. 1.....	84	74	63	54	43	33	20	33	31	27	37	50	58	98
1881—May 5.....	84	74	63	54	43	33	24	33	31	27	37	50	58	98
Sept. 1.....	67	60	53	46	39	32	24	37	24	22	37	43	47	82
Oct. 1.....	67	60	53	46	39	32	20	28	25	23	38	45	48	84
Oct. 5.....	67	60	53	46	39	32	24	33	30	28	43	50	58	100
1882—Jan. 1.....	67	60	53	46	39	32	24	33	30	28	38	45	58	100
Apr. 12.....	67	60	53	46	39	32	20	28	26	23	31	39	47	83
July 10.....	67	60	53	46	39	32	20	23	21	18	31	39	37	69
1883—May 1.....	84	72	62	52	42	33	20	32	24	23	37	44	47	96
1884—Feb. 17.....	84	72	62	52	42	33	20	27	23	22	36	43	44	81
Apr. 10.....	76	65	57	48	40	33	20	26	22	19	34	38	38	77
1885—Feb. 18.....	76	65	57	48	40	33	20	26	22	19	34	38	38	62
Mar. 1.....	76	65	57	48	40	33	20	26	22	19	34	38	38	*26
1887—July 15.....	76	65	57	48	40	33	20	26	23	19	34	38	37	*26
1888—Sept. 30.....	76	65	57	48	40	33	20	26	23	19	34	37	38	*26
1889—Oct. 14.....	76	65	57	48	40	30	20	26	23	19	34	33	38	*26
1890—Mar. 1.....	76	65	57	47	40	30	20	26	25	21	34	33	42	*26
1891—Mar. 31.....	76	65	57	47	40	30	20	26	23	19	34	33	38	*26

* Cents per 100 pounds.

TABLE 92.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO ATLANTA, GA., FROM JULY 15, 1870.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1870—July 15.....	161	134	114	84	64	....	.....	84	87	57	.....	.....	.....	153
1871—Feb. 25.....	150	125	100	85	58	....	.....	85	73	.....	.....	.....	.....	132
1878—Jan. 7.....	106	94	82	48	44	....	.....	48	45	44	.....	.....	.....	82
July 1.....	.....	.....	.....	.....	.....	.....	.....	33	33	30	.....	.....	.....	60
1879—Jan. 15.....	119	104	79	71	56	41	.....	48	49	44	.....	.....	.....	88
Sept. 19.....	110	95	80	64	53	40	39	42	44	39	47	64	78	151
Nov. 15.....	110	95	80	64	53	40	44	47	49	44	47	64	88	166
1880—Sept. 1.....	119	104	89	76	61	46	28	47	43	38	52	71	81	138
Sept. 8.....	110	95	80	64	53	40	37	47	43	38	54	65	77	180
1881—May 5.....	119	104	89	76	61	46	36	50	46	40	50	75	86	146
Sept. 1.....	95	85	75	65	55	45	34	38	34	31	52	61	66	115
Oct. 1.....	95	85	75	65	55	45	28	38	34	31	52	61	66	115
Nov. 25.....	95	85	75	65	55	45	36	44	40	37	58	67	78	134
1882—Jan. 1.....	95	85	75	65	55	45	36	44	40	37	53	62	78	134
Apr. 12.....	95	85	75	65	55	45	30	41	38	35	50	57	70	127
July 10.....	95	85	75	65	55	45	28	34	31	28	48	55	56	102
Sept. 1.....	118	102	88	73	59	46	28	47	34	33	52	62	66	141
1883—May 1.....	118	102	88	73	59	46	28	40	34	33	52	62	66	120
July 15.....	118	102	88	73	59	46	28	38	32	31	50	60	62	114
1884—Mar. 3.....	118	102	88	73	59	46	28	38	32	31	50	60	62	114
Apr. 10.....	107	92	81	68	56	46	28	36	31	27	48	53	54	108
1885—Feb. 18.....	107	92	81	68	56	46	28	36	31	27	48	53	54	86
1891—Oct. 15.....	107	92	81	68	56	46	28	35	28	24	48	53	48	*35

* Cents per 100 pounds.

TABLE 93.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15.....	156	123	97	61	61	50	42	54	52	46	54	.....	92	188
Apr. 1.....	142	110	86	51	51	43	52	54	53	47	54	61	94	188
Sept. 19.....	142	110	86	58	46	38	47	49	50	45	54	55	85	172
Nov. 15.....	142	110	86	58	46	38	56	59	60	55	54	66	105	202
1880—Feb. 1.....	142	110	86	58	46	38	52	54	55	50	49	50	95	186
Apr. 8.....	142	105	83	70	57	48	53	54	50	45	59	60	85	189
Sept. 1.....	146	110	88	74	60	51	45	47	43	43	61	66	81	157
1881—Apr. 15.....	146	110	88	74	60	51	53	50	45	45	64	69	85	173
May 5.....	146	110	88	74	60	51	53	50	45	45	64	69	85	173
Sept. 1.....	129	107	88	74	60	51	36	40	36	33	55	65	70	122
Nov. 25.....	112	93	78	66	53	44	38	38	35	35	58	62	69	124
1882—Apr. 20.....	95	85	75	65	55	45	35	35	33	30	40	40	60	100
July 10.....	95	85	75	65	55	45	35	30	28	25	40	40	50	90
Sept. 1.....	95	80	75	70	58	46	35	39	36	35	52	52	70	117
1883—May 1.....	95	80	75	70	58	46	35	32	29	29	40	40	56	96
1884—Feb. 17.....	95	80	75	70	58	46	35	32	29	25	40	40	56	96
Apr. 10.....	95	80	75	70	58	46	35	32	29	25	40	40	50	96
1885—Feb. 18.....	95	80	75	70	58	46	35	32	29	25	40	40	50	77
1886—Mar. 1.....	95	80	75	70	58	46	35	32	29	25	40	40	50	*32
1888—Sept. 30.....	95	80	75	70	58	46	35	32	24	20	40	40	40	*32
1889—Oct. 14.....	95	80	75	70	58	46	35	35	30	26	40	40	52	*35
1890—Mar. 1.....	95	80	75	70	58	46	35	35	32	28	40	40	56	*35
1891—Oct. 15.....	95	80	75	70	58	46	35	35	27	23	40	40	46	*35

* Cents per 100 pounds.

TABLE 94.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO JACKSONVILLE, FLA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15.....	187	148	116	73	73	65	50	65	62	55	65	.....	110	225
Apr. 1.....	173	135	105	63	63	58	60	65	63	56	65	73	112	225
Sept. 19.....	142	110	86	58	46	38	37	39	40	35	44	45	65	140
Nov. 15.....	142	110	86	58	46	38	47	49	50	45	44	45	85	170
1880—Sept. 8.....	142	105	83	70	57	48	48	49	45	40	54	55	75	173
Sept. 1.....	146	110	88	74	60	51	45	52	50	48	69	69	92	186
1881—Sept. 1.....	139	116	96	81	67	56	41	45	41	38	60	70	80	138
Nov. 25.....	122	102	86	73	59	49	43	43	40	40	63	67	79	140
1882—Apr. 20.....	105	94	83	72	61	50	44	40	38	35	45	45	70	116
July 10.....	105	94	83	72	61	50	44	40	38	35	45	45	70	120
Sept. 1.....	105	89	83	77	64	51	40	44	41	40	57	57	80	132
1883—May 1.....	105	89	83	77	64	51	40	37	34	34	45	45	66	111
1884—Feb. 17.....	105	89	83	77	64	51	40	37	34	30	45	45	66	111
Apr. 10.....	95	80	75	70	58	46	35	32	29	25	40	40	50	96
1885—Feb. 18.....	95	80	75	70	58	46	35	32	29	25	40	40	50	77
1886—Mar. 1.....	95	80	75	70	58	46	35	32	29	25	40	40	50	*32
1889—Oct. 14.....	95	80	75	70	58	46	35	35	30	26	40	40	52	*35
1890—Mar. 1.....	95	80	75	70	58	46	35	35	32	28	40	40	56	*35
1891—Oct. 15.....	95	80	75	70	58	46	35	35	27	23	40	40	46	*35

* Cents per 100 pounds.

TABLE 95.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents. per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	63	49	44	22	21	21	23	26	27	24	26	22	48	71
Sept. 19.....	55	49	44	29	25	21	24	18	18	14	22	29	28	75
Nov. 15.....	55	49	44	29	25	21	29	23	23	19	22	29	38	90
1880—Apr. 8.....	58	50	43	33	28	19	19	25	24	20	31	34	41	106
Sept. 1.....	44	39	33	29	24	17	10	18	16	14	19	26	30	51
1881—May 5.....	44	39	33	29	24	17	12	18	16	14	19	26	30	51
Sept. 1.....	47	43	39	34	29	23	17	19	17	15	29	31	33	60
Oct. 1.....	43	39	34	30	25	21	12	19	17	15	25	30	32	55
Nov. 25.....	43	39	34	30	25	21	12	24	22	20	30	35	42	71
1882—Jan. 1.....	43	39	34	30	25	21	12	24	22	20	25	30	42	71
Apr. 12.....	32	30	28	24	21	19	12	20	18	16	17	18	33	43
July 10.....	32	30	28	24	21	19	12	15	13	11	17	18	23	45
1883—May 1.....	49	42	37	30	24	20	12	24	16	16	23	25	33	72
June 15.....	49	42	37	30	24	20	12	24	16	16	22	23	33	72
1884—Feb. 17.....	49	42	37	30	24	20	12	19	15	15	21	22	30	57
Apr. 10.....	41	35	32	26	22	20	12	18	14	12	19	17	24	53
1885—Feb. 18.....	41	35	32	26	22	20	12	18	15	14	19	17	28	43
1886—Mar. 1.....	41	35	32	26	22	20	12	18	15	14	19	17	28	*18
1887—July 15.....	41	35	32	26	22	20	12	18	18	14	19	17	28	*18
1889—Oct. 14.....	41	35	32	26	22	17	12	18	18	14	19	15	28	*18
1890—Mar. 1.....	41	35	32	25	22	17	12	18	20	16	19	15	32	*18
1891—Mar. 31.....	41	35	32	25	22	17	12	18	18	14	19	15	28	*18

* Rate per 100 pounds.

TABLE 96.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	90	78	66	52	43	31	32	34	37	32	39	52	64	121
Nov. 15.....	90	78	66	52	43	31	37	39	42	37	39	52	74	144
1880—Apr. 8.....	90	78	66	52	43	31	30	39	36	31	46	53	63	158
Sept. 1.....	84	74	63	54	43	33	20	34	31	27	37	50	58	98
1881—May 5.....	84	74	63	54	43	33	26	37	34	26	40	54	63	100
Sept. 1.....	75	68	61	53	45	36	27	30	27	24	44	49	52	93
Oct. 1.....	71	64	56	49	41	34	20	29	26	23	39	46	50	86
Nov. 25.....	71	64	56	49	41	34	24	34	31	28	44	51	60	102
1882—Jan. 1.....	71	64	56	49	41	34	24	34	31	28	39	46	60	102
Apr. 12.....	68	61	54	46	39	32	22	33	30	28	26	41	56	90
July 10.....	68	61	54	46	39	32	22	28	25	23	36	34	46	84
Sept. 1.....	93	72	63	51	41	33	20	39	26	26	37	41	52	17
1883—May 1.....	83	72	63	51	41	33	20	32	26	26	37	41	52	96
June 15.....	83	72	63	51	41	33	20	30	24	24	35	39	48	90
1884—Apr. 10.....	72	62	56	46	38	33	20	28	23	20	33	32	40	84
1885—Feb. 18.....	72	62	56	46	38	33	20	28	23	20	33	32	40	*67
1887—July 1.....	72	62	56	46	38	33	20	28	24	20	33	32	40	*28
1891—Oct. 15.....	72	62	56	46	38	33	20	27	21	17	33	32	34	*27

* Cents per 100 pounds.

TABLE 97.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	122	93	72	39	39	34	45	46	46	40	46	49	80	166
Sept. 19.....	122	93	72	46	36	29	40	41	43	38	46	43	71	150
Nov. 15.....	122	93	72	46	36	29	40	41	43	38	37	33	71	148
1880—Feb. 1.....	122	93	72	46	36	29	45	46	48	43	41	38	81	164
Apr. 8.....	122	88	67	58	47	39	46	46	43	38	51	48	71	167
Sept. 1.....	126	93	74	62	50	42	38	39	36	36	53	54	67	135
1881—Apr. 15.....	126	93	74	62	50	42	46	42	33	33	56	57	61	151
May 5.....	126	93	74	62	50	42	46	42	38	38	56	57	71	151
Sept. 1.....	109	90	74	62	50	42	29	32	29	26	47	53	56	100
Nov. 25.....	92	76	64	54	43	35	31	30	28	28	50	50	55	102
1882—Apr. 20.....	72	65	57	50	42	34	27	27	25	23	31	31	46	76
July 10.....	72	65	57	50	42	34	27	22	20	18	31	31	36	66
Sept. 1.....	72	60	57	55	45	35	27	31	28	28	43	43	56	93
1883—May 1.....	72	60	57	55	45	35	27	24	22	22	31	31	42	72
1884—Mar. 3.....	72	60	57	55	45	35	27	24	22	19	31	31	42	73
Apr. 10.....	72	60	57	55	45	35	27	24	22	19	31	31	38	73
1885—Feb. 18.....	72	60	57	55	45	35	27	24	22	19	31	31	38	58
1886—Mar. 1.....	72	60	57	55	45	35	27	24	22	19	31	31	38	*24
1888—Sept. 30.....	72	60	57	55	45	35	27	24	19	15	31	31	30	*24
1889—Oct. 14.....	72	60	57	55	45	35	27	23	20	31	31	39	21	*23
1890—Mar. 1.....	72	60	57	55	45	35	27	27	25	21	31	31	42	*27
1891—Oct. 15.....	72	60	57	55	45	35	27	27	21	17	31	31	34	*27

* In cents per 100 pounds.

TABLE 98.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO JACKSONVILLE, FLA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	122	93	72	46	36	29	30	31	41	28	37	33	51	118
Nov. 15.....	122	93	72	46	36	29	40	41	43	38	37	33	71	148
1880—Apr. 8.....	122	88	67	58	47	39	41	41	38	33	46	43	61	151
Sept. 1.....	126	93	74	62	50	42	38	44	43	41	61	57	78	164
1881—May 5.....	136	102	82	69	56	47	51	47	43	43	61	62	81	167
Sept. 1.....	119	99	82	69	57	47	34	37	34	31	52	58	66	116
Nov. 25.....	102	85	72	61	49	40	36	35	33	33	55	55	65	118
1882—Apr. 20.....	82	74	65	57	48	39	32	32	30	28	36	36	56	92
July 10.....	82	74	65	57	48	39	32	32	30	28	36	36	56	96
Sept. 1.....	82	69	65	62	51	40	32	36	33	33	48	48	66	108
1883—May 1.....	82	69	65	62	51	40	32	29	27	27	36	36	52	87
1884—Feb. 17.....	82	69	65	62	51	40	32	29	27	23	36	36	52	87
Mar. 3.....	84	71	66	62	51	41	32	30	27	24	36	36	53	88
Apr. 10.....	72	60	57	55	45	35	27	24	22	19	31	31	38	73
1885—Feb. 18.....	72	60	57	55	45	35	27	24	22	19	31	31	38	58
1886—Mar. 1.....	72	60	57	55	45	35	27	24	22	19	31	31	38	*24
1887—July 15.....	72	60	57	55	45	35	27	24	23	19	31	31	38	*24
1889—Oct. 14.....	72	60	57	55	45	35	27	27	23	20	31	31	39	*27
1890—Mar. 1.....	72	60	57	55	45	35	27	27	25	21	31	31	42	*27
1891—Oct. 15.....	72	60	57	55	45	35	27	27	21	17	31	31	34	*27

* Rate per 100 pounds.

TABLE 99.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	73	64	56	32	29	28	28	32	32	29	32	32	58	86
Sept. 19.....	70	61	53	36	30	25	26	21	20	16	25	36	32	80
Nov. 15.....	70	61	53	36	30	25	31	26	25	21	25	42	42	95
1880—Apr. 8.....	73	62	52	40	33	23	21	28	26	22	47	41	45	111
1880—Sept. 1.....	79	69	58	49	38	28	15	28	26	22	32	45	48	81
1881—May 5.....	79	69	58	49	38	28	18	28	26	22	32	45	48	81
Sept. 1.....	62	55	48	41	34	27	19	22	19	17	32	38	37	65
Oct. 1.....	62	55	48	41	34	27	15	23	20	18	33	40	38	67
Nov. 25.....	62	55	48	41	34	27	18	28	25	23	38	45	48	83
1882—Jan. 1.....	62	55	48	41	34	27	18	28	25	23	33	40	48	83
Apr. 12.....	62	55	48	41	34	27	15	23	21	18	26	34	37	66
July 10.....	62	55	48	41	34	27	15	18	16	13	26	34	27	54
1883—May 1.....	79	67	57	47	37	28	15	27	19	18	32	39	37	81
1884—Feb. 17.....	79	67	57	47	37	28	15	22	18	17	31	38	34	66
Apr. 10.....	71	60	52	43	35	28	15	21	17	14	29	33	28	62
1885—Feb. 18.....	73	62	54	45	37	30	17	23	19	16	31	35	32	55
1887—July 15.....	72	61	53	44	36	29	16	22	19	15	30	34	30	*22
1889—Oct. 14.....	72	61	53	44	36	26	16	22	19	15	30	29	30	*22
1890—Mar. 1.....	72	61	53	43	36	26	16	22	21	17	30	29	34	*22
1891—Mar. 31.....	72	61	53	43	36	26	16	22	19	15	30	29	30	*22

* Cents per 100 pounds.

TABLE 100.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	105	90	75	59	48	35	34	37	39	34	42	59	68	134
Nov. 15.....	105	90	75	59	48	35	39	42	44	39	42	59	78	149
1880—Apr. 8.....	105	90	75	59	48	35	32	42	38	33	49	60	67	164
Sept. 1.....	114	100	85	73	59	44	27	45	41	36	50	68	78	132
1881—May 5.....	114	100	85	73	59	44	35	48	44	38	53	72	83	140
Sept. 1.....	90	80	70	60	50	40	29	33	29	26	47	56	56	98
Oct. 1.....	90	80	70	60	50	40	23	33	29	26	47	56	56	93
Nov. 25.....	90	80	70	60	50	40	31	39	35	32	53	62	68	111
1882—Jan. 1.....	90	80	70	60	50	40	29	38	34	31	47	56	66	114
Apr. 12.....	90	80	70	60	50	40	31	36	33	30	45	52	60	110
July 10.....	90	80	70	60	50	40	25	31	28	25	45	50	50	93
Sept. 1.....	113	97	83	68	54	41	23	42	29	28	47	57	56	126
1883—May 1.....	113	97	83	68	54	41	23	35	29	28	47	57	56	105
July 15.....	113	97	83	68	54	41	23	33	27	26	45	55	52	99
1884—Mar. 3.....	113	97	83	68	54	41	23	35	29	28	47	57	56	105
Apr. 10.....	102	87	76	63	51	41	23	31	26	22	43	48	44	93
1885—Feb. 18.....	104	89	78	65	53	43	25	33	28	24	45	50	48	79
1887—July 15.....	103	88	77	64	52	42	24	32	27	23	44	49	46	*32
1891—Oct. 15.....	103	88	77	64	52	42	24	31	24	20	44	49	40	*31

* Cents per 100 pounds.

TABLE 101.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	140	108	84	49	49	41	50	52	51	45	52	59	90	181
Sept. 19.....	137	105	81	53	41	33	42	44	45	40	49	.....	75	155
Nov. 15.....	137	105	81	53	41	33	52	54	55	50	49	50	95	185
1880—Feb. 1.....	137	105	81	53	41	33	47	49	50	45	44	45	85	169
Sept. 1.....	141	105	83	69	55	46	40	42	38	38	56	61	71	140
1881—Apr. 5.....	141	105	83	69	55	46	48	45	40	40	59	64	75	156
Apr. 8.....	137	100	78	65	52	43	48	49	45	43	54	75	75	172
May 5.....	141	105	83	69	55	46	48	45	40	40	59	64	75	156
Sept. 1.....	124	102	83	69	55	46	31	35	31	28	50	60	60	105
Oct. 1.....	124	102	83	69	55	46	31	35	31	28	50	60	60	105
Nov. 25.....	107	88	73	61	48	39	33	33	30	30	53	57	59	107
1882—Jan. 1.....	107	88	73	61	48	39	33	33	30	30	53	57	59	107
Apr. 20.....	90	80	70	60	50	40	30	30	28	25	35	35	50	85
July 10.....	90	80	70	60	50	40	30	25	23	20	35	35	40	75
Sept. 1.....	90	75	70	65	53	41	30	34	31	30	47	47	60	102
1883—May 1.....	90	75	70	65	53	41	30	27	24	24	35	35	46	81
1884—Mar. 3.....	90	75	70	65	53	41	30	27	24	20	35	35	46	81
1885—Feb. 18.....	92	77	72	67	55	43	32	29	26	22	37	37	44	70
1887—July 15.....	91	76	71	66	54	42	31	28	25	21	36	36	42	*28
1888—Sept. 30.....	91	76	71	66	54	42	31	28	20	16	36	36	32	*28
1889—Oct. 14.....	91	76	71	66	54	42	31	31	26	22	36	36	44	*31
1890—Mar. 1.....	91	76	71	66	54	42	31	31	28	24	36	36	44	*31
1891—Oct. 15.....	91	76	71	66	54	42	31	31	23	19	36	36	38	*31

* Cents per 100 pounds.

TABLE 102.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO JACKSONVILLE, FLA., FROM SEPTEMBER, 19, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	137	105	81	53	41	33	32	34	35	30	39	40	58	123
Nov. 15.....	137	105	81	53	41	33	42	44	45	40	39	40	78	153
1880—Feb. 1.....	139	105	81	53	41	33	42	44	45	40	39	40	78	153
Apr. 1.....	137	100	78	65	52	43	43	44	40	35	49	50	67	156
Sept. 1.....	141	105	83	69	55	46	40	47	45	43	64	64	82	169
1881—May 5.....	151	114	91	76	61	51	53	50	45	45	64	69	85	172
Sept. 1.....	134	111	91	76	62	51	36	40	36	33	55	65	70	121
Oct. 1.....	134	111	91	76	62	51	36	40	36	33	55	65	70	121
Nov. 20.....	117	97	81	68	54	44	38	38	35	35	58	62	69	123
1882—Jan. 1.....	117	97	81	68	54	44	38	38	35	35	58	62	69	123
Apr. 20.....	100	89	78	67	56	45	39	35	33	30	40	40	60	100
July 10.....	100	89	78	67	56	45	39	35	33	30	40	40	60	105
Sept. 1.....	100	84	78	72	59	46	35	39	36	35	52	52	70	117
1883—May 1.....	100	84	78	72	59	46	35	32	29	29	40	40	56	96
1884—Feb. 17.....	100	84	78	72	59	46	35	32	29	25	40	56	56	96
Mar. 3.....	100	84	78	72	59	46	35	32	29	25	40	40	56	96
Apr. 10.....	90	75	70	65	53	41	30	27	24	20	35	35	40	81
1885—Feb. 18.....	92	77	72	67	55	43	32	29	26	22	37	37	44	70
July 15.....	92	77	72	67	55	43	32	29	26	22	37	44	44	70
1886—Mar. 1.....	92	77	72	67	55	43	32	29	26	22	37	37	44	*29
1887—July 15.....	91	76	71	66	54	42	31	28	25	21	36	36	42	*28
1889—Oct. 14.....	91	76	71	66	54	42	31	31	26	22	36	36	44	*31
1890—Mar. 1.....	91	76	71	66	54	42	31	31	28	24	36	36	48	*31
1891—Oct. 15.....	91	76	71	66	54	42	31	31	23	19	36	36	38	*31

* Cents per 100 pounds.

COTTON RATES.

Four tables here follow showing the changes in cotton rates between various Southern and Eastern points.

TABLE 103.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM MEMPHIS, TENN., TO NEW YORK AND BOSTON VIA ALL RAIL FROM SEPTEMBER 1, 1880.

[Rates in cents per 100 pounds.]

From Memphis, Tenn., to.....	New York, N. Y.	Bos- ton, Mass.	From Memphis, Tenn., to.....	New York, N. Y.	Bos- ton, Mass.	From Memphis, Tenn., to.....	New York, N. Y.	Bos- ton, Mass.
1880—Sept. 1.....	74	79	1884—Feb. 2....	50	55	1888—Oct. 1....	50½	55½
1881—Apr. 20.....	68	73	Apr. 5.....	(*)	(*)			
July 20.....	65	70	Sept. 17.....	62	67			
Sept. 9.....	52	57	1885—May 21....	45	50			
Sept. 27.....	65	70	Sept. 25.....	62	57			
Nov. 14.....	52	57	Dec. 22.....	53	58			
Dec. 12.....	57	62	1886—Sept. 18....	(*)	(*)			
1882—Apr. 8.....	47	52	Oct. 1.....	53	58			
May 5.....	57	62	1887—Sept. 29....	(*)	(*)			
Sept. 16.....	72	77	Nov. 4.....	50½	55½			
1883—Dec. 27.....	62	67	1888—Feb. 27....	45	50			
1884—Jan. 17.....	55	60						

* Nominal.

TABLE 104.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM NEW ORLEANS, LA., TO BOSTON, NEW YORK, PHILADELPHIA, AND BALTIMORE, VIA ALL RAIL LINES FROM DECEMBER 10, 1880.

Date.	Rates (in cents, per 100 pounds).			
	To Bos- ton, Mass.	To New York, N. Y.	To Phila- delphia, Pa.	To Balti- more, Md.
1880—Dec. 10.....	60	55	55	55
1881—Nov. 4.....	50	45	50	50
1882—Sept. 20.....	60	55	53	52
1886—Mar. 13.....	50	45	43	42
1887—July 5.....	50	45	43	42
1888—June 12.....	45	40	38	37
Sept. 24.....	60	55	53	52
Nov. 10.....	50	45	43	42
1889—Sept. 25.....	60	55	53	52
Oct. 29.....	55	50	50	50
1890—Mar. 6.....	55	50	50	50
1892—Apr. 7.....	55	50	50	50

TABLE 105.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM NEW ORLEANS, LA., TO NEW YORK AND BOSTON BY STEAMER FROM SEPTEMBER, 1875.

RATES ON ORANGES FROM SOUTHERN POINTS TO EASTERN CITIES.

Three tables are next presented showing the changes in the rates on oranges from Jacksonville, Fla., to Eastern cities. Three principal routes are employed for the carriage of this traffic, one via all rail, the second via rail to Norfolk and Portsmouth, Va., and thence via water, and the third via rail to Savannah, Ga., and thence via water. The charges by each vary, the water lines charging lower rates than via all rail. Each table shows the changes which have taken place in these rates so far as the data have been obtainable.

TABLE 107.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED, VIA SAVANNAH, ALL RAIL, FROM DECEMBER 6, 1887.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1887—Dec. 6.....	40	80	40	80	40	80	40	80
1888—Oct. 8.....	40	80	41	81	43	85	49	98
1889—Sept. 21.....	40	80	41	81	43	85	49	98
1890—Nov. 23.....	50	100	51	102	53	106	59	118
1892—Jan. 2.....	50	100	51	102	53	106	61	122
Nov. 1.....	50	100	51	102	53	106	61	122

TABLE 108.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED, VIA SAVANNAH, RAIL TO NORFOLK OR PORTSMOUTH, AND THENCE VIA WATER, FROM OCTOBER 15, 1883.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1883—Oct. 15.....	60	120	60	120	60	120	65	130
Dec. 7.....	50	100	50	100	50	100	60	120
1884—Oct. 15.....	30	60	30	60	30	60	45	80
1885—Jan. 12.....	40	80	40	80	40	80	54	96
1886—Nov. 1.....	.....	.....	.....	.....	.....	.....	40	60
Nov. 30.....	35	70	35	70	35	70	35	70
1888—Oct. 1.....	.....	.....	.....	.....	.....	.....	38	76
1889—Oct. 15.....	37½	75	37½	75	37½	75	40½	81
1890—Nov. 23.....	47½	95	47½	95	47½	95	50½	101
1892—Jan. 2.....	47½	95	47½	95	47½	95	50½	101
Nov. 1.....	47½	95	47½	95	47½	95	50½	101

TABLE 109.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED, VIA SAVANNAH AND STEAMSHIP, FROM OCTOBER 3, 1881.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1881—Oct. 3.....	50	100	50	100	50	100	50	100
1883—Oct. 15.....	50	100	50	100	50	100	50	100
Nov. 15.....	50	100	50	100	50	100	50	100
1884—Oct. 6.....	30	60	30	60	30	60	30	60
1885—Jan. 12.....	40	80	40	80	40	80	40	80
Sept. 7.....	40	80	40	80	40	80	40	80
1886—Sept. 15.....	40	80	40	80	40	80	40	80
Nov. 18.....	30	60	30	60	30	60	30	60
1887—Sept. 1.....	30	60	30	60	30	60	30	60
Sept. 15.....	30	60	30	60	30	60	30	60
1889—Sept. 20.....	30	60	30	60	30	60	35	70
1890—Nov. 23.....	40	80	40	80	40	80	45	90
1892—Jan. 2.....	40	80	40	80	40	80	45	90
Nov. 1.....	40	80	40	80	40	80	45	90

TABLE 110.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, SAVANNAH TO ATLANTA, GA., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1878—Aug. 27.....	100	85	70	55	40	....	40	40	35	25	*60	.....	100	.....
Sept. 11.....	85	75	60	45	35	....	30	30	30	20	.....	.....	85	.....
1881—May 5.....	86	75	64	55	44	33	20	36	33	29	40	55	62	106
Nov. 25.....	68	61	54	47	40	32	20	34	31	29	45	52	60	104
1882—Jan. 1.....	68	61	54	47	40	32	20	34	31	29	40	47	60	104
Apr. 12.....	68	61	54	47	40	32	20	30	20	19	37	42	40	89
July 20.....	68	61	54	47	40	32	20	26	20	19	37	42	40	78
Sept. 1.....	80	73	58	48	38	33	20	33	20	19	38	48	40	99
1883—May 1.....	78	72	57	47	36	32	20	27	19	18	36	47	38	81
1884—Apr. 10.....	69	63	51	43	35	33	20	28	19	18	38	48	38	84
1885—Feb. 18.....	69	63	51	43	35	33	20	28	19	18	38	48	38	67
July 15.....	69	63	51	43	35	33	20	28	21	20	38	48	42	67
1886—Mar. 1.....	69	63	51	43	35	33	20	28	21	20	38	48	42	128

* Rate per barrel.

† Rate per 100 pounds.

TABLE 111.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, SAVANNAH, GA., TO CHATTANOOGA, TENN., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1878—Aug. 27.....	100	85	70	55	45	....	40	40	35	25	*60	.....	100	.....
Sept. 11.....	85	75	60	45	35	....	30	30	30	20	*60	.....	85	.....
1879—Jan. 15.....	110	90	75	60	50	40	30	40	44	40	50	.....	80	175
1881—Nov. 25.....	68	61	54	47	40	32	20	34	31	29	45	52	60	104
1882—Jan. 1.....	68	61	54	47	40	32	20	34	31	29	40	47	60	104
Apr. 12.....	68	61	54	47	40	32	20	30	20	19	37	42	40	89
July 10.....	68	61	54	47	40	32	20	26	20	19	37	42	40	78
1883—May 1.....	80	73	58	48	38	33	20	33	20	19	38	48	40	99
1884—Apr. 10.....	69	63	51	43	35	33	20	28	20	19	38	48	40	84
1885—Feb. 18.....	69	63	51	43	35	33	20	28	20	19	38	48	40	67
July 15.....	69	63	51	43	35	33	20	28	22	21	38	48	44	67
1886—Mar. 1.....	69	63	51	43	35	33	20	28	22	21	38	48	44	128

* Rate per barrel.

† Rate per 100 pounds.

TABLE 112.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL FROM SAVANNAH, GA., TO MONTGOMERY, ALA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15.....	105	90	75	60	50	35	30	35	38	35	50	.....	70	150
1880—Sept. 1.....	86	75	64	55	44	33	20	36	33	29	40	.....	62	106
1881—Sept. 1.....	68	61	54	47	40	32	24	29	26	24	40	47	50	88
Oct. 1.....	68	61	54	47	40	32	20	29	26	24	40	47	50	88
Nov. 25.....	68	61	54	47	40	32	20	34	31	29	45	52	60	104
1882—Jan. 1.....	68	61	54	47	40	32	20	34	31	29	40	47	60	104
Apr. 12.....	68	61	54	47	40	32	20	30	20	20	31	42	40	90
July 10.....	68	61	54	47	40	32	20	26	20	20	31	42	40	78
Sept. 1.....	80	73	58	48	38	33	20	33	20	19	38	48	40	99
1884—Apr. 10.....	69	63	51	43	35	33	20	28	20	19	38	48	40	84
1885—Feb. 18.....	69	63	51	43	35	33	20	28	20	19	38	48	40	67
July 15.....	69	63	51	43	35	33	20	28	22	21	38	48	44	67
1886—Mar. 1.....	69	63	51	43	35	33	20	28	22	21	38	48	44	*28

* Rate per 100 pounds.

From Charles- ton, S. C., to—	Oct. 1, 1884.	Dec. 10, 1884.	Nov. 5, 1885.	Nov. 28, 1885.	Feb. 8, 1886.	Dec. 1, 1886.	Jan. 20, 1887.	Oct. 20, 1887.	Dec. 20, 1887.	Dec. 1, 1888.	Jan. 5, 1889.	Nov. 18, 1889.	Jan. 1, 1890.	Dec. 7, 1891.	Jan. 20, 1892.	Nov. 16, 1892.
Albany, Ga.....	\$4.30	\$4.30	\$4.15	\$4.15	\$4.00	\$4.00	\$4.00	\$3.45	\$3.45	\$3.00	\$3.00	\$3.00	\$3.00	\$2.75	\$2.75	\$2.59
Americus, Ga..	4.48	4.48	4.33	4.33	4.33	4.33	4.33	4.33	4.18	3.00	3.00	3.00	3.00	3.00	3.00	2.75
Anniston, Ala.	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Athens, Ga....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.25	3.25	3.25
Atlanta, Ga....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.14	3.14	3.14
Augusta, Ga...	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Birmingham,																
Ala.....	4.00	4.00	4.00	4.00	4.00	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.50	3.50	3.50
Brandon, Miss.	5.60	5.60	5.60	5.25	5.00	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Buford, Ga.....	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.46	4.46	4.46	4.46	4.46	3.74	3.95	3.95
Calera, Ala....	5.20	5.20	4.80	4.80	4.60	3.25	3.25	3.25	4.45	4.45	4.45	4.45	4.45	4.45	3.50	3.50
Carrollton, Ga.	4.84	4.84	4.69	4.69	4.69	4.69	4.69	4.69	4.54	3.66	3.67	3.66	3.66	3.36	3.36	3.36
Charlotte, N. C.	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.20	3.66	3.20	3.20	3.20	3.20	3.20	3.20
Chattanooga,																
Tenn.....	4.00	4.00	4.00	4.00	4.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Cincinnati,																
Ohio	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.50	4.25	4.25	4.80
Columbus, Ga..	4.30	4.30	4.00	4.00	3.50	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Columbus, Miss	5.60	5.60	5.60	5.25	5.00	4.60	4.60	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Corinth, Miss..	4.60	4.60	4.25	4.25	4.25	4.25	4.25	4.25	4.15	4.15	4.15	4.15	4.15	4.15	4.00	4.00
Dalton, Ga.....	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Gadsden, Ala..	4.60	4.60	4.60	4.60	4.60	4.20	4.20	4.20	4.20	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Grenada, Miss.	6.00	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.00	5.10	5.10	5.10	4.75	5.10	5.10	5.00
Greenville,																
Tenn.....	5.80	5.80	5.20	5.20	5.20	5.00	5.00	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55
Hawkinsville,																
Ga.....	3.44	3.44	3.44	3.44	3.32	3.32	3.16									

RATES ON CLASSIFIED TRAFFIC FROM NEW YORK TO ATLANTA, GA.

The following table shows the rates on various classes between the above-named points from 1869 to the present time.

Important reductions appear in the rates of each class, and similar changes have occurred from the other Eastern seaboard cities, and also to points other than Atlanta the rates to which are upon a basis similar to the Atlanta rates. The Southern Railway and Steamship Association classification governs these rates, in which it has been shown that many articles are now classified lower than formerly.

TABLE 114.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM NEW YORK, TO ATLANTA, GA., DURING THE PERIOD FROM MAY, 1869.

Date.	Classes. (Rates in cents per 100 pounds.)					
	1.	2.	3.	4.	5.	6.
1869—May 1	198	168	130	115	100	.....
1873—May 12	170	140	110	90	80	70
1877—July 1	145	125	100	80	60	50
1879—Jan. 15	125	110	85	75	60	45
1881—Sept. 1	100	90	80	70	58	48
1884—Apr. 10	114	98	86	73	60	49
1889—Sept. 3	108	90	80	66	55	49
Oct. 14	114	98	86	73	60	49

TABLE 115.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NEW YORK TO SELMA, ALA., FROM JUNE 29, 1877.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1877—June 29.....	145	130	105	85	70	60	.....	.....	.....	.....	.....	.....	.....	.....
1879—Jan. 15.....	125	110	85	75	60	45	30	45	45	45	60	.....	85	150
Apr. 1.....	125	110	85	75	60	45	45	45	45	45	50	75	85	150
Sept. 19.....	125	110	85	75	60	45	34	45	45	45	50	75	85	150
1880—Sept. 1.....	126	110	94	81	65	49	30	53	49	43	58	81	91	156
1881—May 5.....	126	110	94	81	65	49	36	53	49	43	58	81	91	156
Sept. 1.....	100	90	80	70	58	48	36	42	38	35	58	69	74	129
Oct. 1.....	100	90	80	70	58	48	30	42	38	35	58	69	74	129
Nov. 25.....	100	90	80	70	58	48	36	47	43	40	63	74	84	145
1882—Jan. 1.....	100	90	80	70	58	48	36	47	43	40	58	69	84	145
Apr. 12.....	100	90	80	70	58	48	30	43	38	35	54	62	73	131
July 10.....	100	90	80	70	58	48	30	38	35	32	54	62	64	114
Sept. 1.....	125	108	93	78	63	49	36	53	40	39	58	68	78	159
1884—Apr. 10.....	114	98	86	73	60	49	36	48	40	39	58	68	78	144
1885—Feb. 18.....	114	98	86	73	60	49	36	48	40	39	58	68	78	115
1886—Mar. 1.....	114	98	86	73	60	49	36	48	40	39	58	68	78	*48

* Cents per 100 pounds.

TABLE 116.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NEW YORK TO MONTGOMERY, ALA., VIA ALL-RAIL, FROM JUNE 29, 1877.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).		
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1877—June 29.....	145	130	105	85	70	60	.....	.....	.....	.....	.....	.....	.....	.....
1879—June 15.....	125	110	85	75	60	45	50	45	45	45	60	.....	85	150
Sept. 19.....	125	110	85	75	60	45	34	45	45	45	50	75	85	150
1880—Sept. 1.....	126	110	94	81	65	49	30	53	49	43	58	81	91	156
1881—May 5.....	126	110	94	81	65	49	36	53	49	43	58	81	91	156
Sept. 1.....	100	90	80	70	58	48	36	42	38	35	58	69	74	129
Oct. 1.....	100	90	80	70	58	48	30	42	38	35	58	69	74	129
Nov. 25.....	100	90	80	70	58	48	36	47	43	40	63	74	84	145
1882—Jan. 1.....	100	90	80	70	58	48	36	47	43	40	58	69	84	145
Apr. 12.....	100	90	80	70	58	48	30	43	38	35	54	62	73	131
July 10.....	100	90	80	70	58	48	30	38	35	32	54	62	64	114
Sept. 1.....	125	108	93	78	63	49	36	53	40	39	58	68	78	159
1884—Apr. 10.....	114	98	86	73	60	49	36	48	40	39	58	68	78	144
1885—Feb. 18.....	114	98	86	73	60	49	36	48	40	39	58	68	78	115
1886—Mar. 1.....	114	98	86	73	60	49	36	48	40	39	58	68	78	*48

* In cents per 100 pounds.

TRANSCONTINENTAL TRAFFIC—WESTWARD BOUND.

Traffic originating at points east of the Missouri River and destined to the Pacific coast is known as transcontinental traffic. The rates on such traffic are established from various grouped points east of the Missouri River, beginning at the Atlantic seaboard. The tables following have been arranged to show the changes in important commodities carried to the Pacific coast from a principal point in each of the groups from which through rates are published.

TABLE 117.—RATES OF FREIGHT, ALL RAIL, FROM NEW YORK, N. Y., TO SAN FRANCISCO, PORTLAND, LOS ANGELES, AND OTHER PACIFIC COAST TERMINAL POINTS.

[NOTE.—Where the rates shown are not specifically described as applying on less than carload or carload quantities they apply on shipments regardless of quantity.]

Date.	Commodities (rates in cents per 100 pounds).													
	Dry goods.	Cotton piece goods.	Furniture.		Stoves.		Canned goods.		Glassware.		Starch.		Tinware.	Hardware.
			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1870—Feb. 10.....	650	550	.....	.....	420	420	420	420	650	650	420	420	.....	400
1876—Nov. 1.....	600	550	.....	200	200	200	150	150	250	250	150	150	.....	250
1880—Jan. 1.....	600	500	.....	300	200	150	150	150	250	250	150	150	.....	250
1882—Oct. 1.....	600	500	.....	300	200	150	150	150	250	250	150	150	.....	250
1885—Jan. 1.....	500	250	.....	200	250	125	125	125	150	150	125	125	.....	175
1887—Apr. 27.....	300	150	.....	130	150	100	100	100	110	110	110	100	.....	120
June 16.....	300	150	.....	175	150	100	100	100	110	110	110	100	.....	120
1888—Mar. 6.....	400	180	.....	180	180	180	180	110	140	140	120	110	.....	130
Sept. 1.....	400	180	.....	140	200	200	200	140	140	140	140	100	.....	115
1889—Jan. 1.....	420	215	.....	170	200	120	120	150	150	170	120	170	.....	130
1891—Jan. 15.....	420	235	.....	235	200	150	130	165	165	185	120	185	.....	145
1892—July 18.....	420	235	.....	235	200	150	130	165	165	185	120	185	.....	145

* Lower rates for carloads.

TABLE 118.—RATES OF FREIGHT, ALL RAIL, FROM PITTSBURG, PA., TO SAN FRANCISCO, PORTLAND, LOS ANGELES, AND OTHER PACIFIC COAST TERMINAL POINTS.

Date.	Commodities (rates in cents per 100 pounds).													
	Dry goods.	Cotton piece goods.		Furniture.		Stoves.		Canned goods.		Glassware.		Starch.		Hardware.
		Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	
1876—Nov. 1.....	600	.....	200	200	200	200	150	150	300	250	250	150	150	300
1880—Jan. 1.....	543	453	271	200	200	200	150	150	362	250	250	150	150	362
1885—Jan. 1.....	475	230	200	230	115	115	115	115	285	135	135	115	100	230
1887—July 18.....	270	135	158	135	90	90	90	90	180	99	99	99	90	135
1888—Mar. 6.....	360	162	162	162	162	162	126	108	225	117	117	108	99	162
Sept. 1.....	360	180	100	200	100	200	140	108	225	140	140	140	100	162
1889—Jan. 1.....	400	205	160	200	115	200	143	160	*310	160	160	160	160	205
1891—Jan. 15.....	400	220	138	200	143	200	155	175	*345	175	175	175	175	220
1892—July 18.....	400	220	138	200	143	200	155	175	*345	175	175	175	175	220

* Lower rates for carloads.

TABLE 119.—RATES OF FREIGHT, ALL RAIL, FROM CINCINNATI, OHIO, TO SAN FRANCISCO, PORTLAND, LOS ANGELES, AND OTHER PACIFIC COAST TERMINAL POINTS.

Commodities (rates in cents per 100 pounds).														
Date.	Dry goods.	Cotton piece goods.		Furniture.		Stoves.		Canned goods.		Glassware.		Starch.		Hardware.
		Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	
1876—Nov. 1.....	531	.....	212	.....	212	212	159	159	239	239	239	159	159	265
1880—Jan. 1.....	531	425	265	.....	212	200	150	150	239	239	239	150	150	345
1885—Jan. 1.....	450	225	200	.....	225	115	115	115	135	135	135	115	115	225
1887—July 18.....	255	128	149	.....	128	85	85	85	94	94	94	94	85	102
1888—Sept. 1.....	255	128	180	.....	150	100	100	200	140	140	94	140	100	115
1889—Jan. 1.....	395	200	155	.....	150	115	115	115	140	140	155	155	155	124
1891—Jan. 15.....	395	215	135	.....	150	140	124	200	150	150	170	170	170	215
1892—July 18.....	395	215	135	.....	150	140	124	124	150	150	170	170	170	215
														265
														345
														180
														111
														102
														160
														100
														115
														115
														160
														160
														115
														115
														239
														239
														155
														102
														115
														124
														135
														135

* Lower rate for carloads.

TABLE 120.—RATES OF FREIGHT, ALL RAIL, FROM CHICAGO, ILL., TO SAN FRANCISCO, PORTLAND, LOS ANGELES, AND OTHER PACIFIC COAST TERMINAL POINTS.

Date.	Commodities (rates in cents per 100 pounds).													
	Dry goods.	Furniture.		Stoves.		Canned goods.		Glassware.		Starch.		Saw.	Crockery and earthen ware.	
		Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.		Less than car-loads.	Car-loads.
1870—Feb. 10	750	.....	325	420	420	420	420	620	620	420	420	.....	.....	.....
1876—Nov. 1	500	.....	200	200	200	150	150	225	225	150	150	.....	.....	.....
1880—Jan. 1	500	.....	250	200	200	150	150	225	225	150	150	.....	.....	.....
1885—Jan. 1	430	.....	200	215	110	130	110	130	130	110	110	.....	.....	.....
1885—Mar. 16	400	.....	160	200	100	120	100	120	120	100	100	.....	.....	.....
1886—Apr. 26	200	.....	80	100	50	60	50	60	60	50	50	.....	.....	.....
1887—Apr. 5	470	.....	275	335	245	275	335	335	335	275	275	.....	.....	.....
1887—Apr. 27	240	.....	104	120	80	275	88	88	88	88	88	.....	.....	.....
1887—June 16	240	.....	140	120	80	88	88	88	88	88	88	.....	.....	.....
1888—Mar. 6	325	.....	145	145	145	145	145	112	112	96	96	.....	.....	.....
1888—Sept. 1	325	.....	160	200	100	200	100	140	140	140	140	.....	.....	.....
1889—Jan. 1	390	.....	150	200	110	200	110	130	130	150	150	.....	.....	.....
1891—Jan. 15	390	.....	210	200	130	200	119	145	145	165	165	.....	.....	.....
1892—July 18	390	.....	210	200	130	170	119	145	145	165	165	.....	.....	.....

* Lower rates for carloads.

TABLE 121.—RATES OF FREIGHT, ALL RAIL, FROM ST. LOUIS, MO., TO SAN FRANCISCO, PORTLAND, LOS ANGELES, AND OTHER PACIFIC COAST TERMINAL POINTS.

Date.	Commodities (rates in cents per 100 pounds).													
	Dry goods.	Furniture.		Stoves.		Canned goods.		Glassware.		Starch.		Crockery and earthenware.		Nails.
		Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	
1870—Feb. 10.....	750	.....	.....	420	.....	420	420	620	420	420	420	225	225	420
1876—Nov. 1.....	500	.....	200	200	.....	150	150	225	150	150	250	225	225	250
1880—Jan. 1.....	500	.....	250	200	.....	150	150	225	150	150	325	225	225	325
1882—Oct. 1.....	486	.....	242	200	192	142	142	217	142	142	315	217	217	315
1885—Jan. 1.....	410	.....	200	210	105	125	105	125	105	105	210	125	125	210
1885—Mar. 16.....	382	.....	153	192	96	115	96	115	96	96	192	115	115	192
1886—Apr. 26.....	191½	.....	76½	96	50	57½	50	57½	50	50	96	57½	57½	96
1887—Apr. 5.....	450	.....	265	320	235	265	265	320	265	265	385	265	265	385
1887—Apr. 27.....	230	.....	100	115	77	77	77	84	84	77	115	84	84	115
June 16.....	230	.....	134	115	77	84	77	84	84	77	115	84	84	115
1888—Mar. 6.....	312	140	140	140	140	140	140	108	92	85	140	100	85	140
Sept. 1.....	312	160	140	200	100	200	100	140	140	100	187	140	85	187
1889—Jan. 1.....	374	144	144	200	106	200	106	125	144	106	202	144	106	202
1891—Jan. 15.....	370	202	120	200	125	200	114	139	158	114	202	158	106	202
1892—July 18.....	370	202	120	200	125	163	114	139	158	114	202	158	106	202

* Lower rate for carloads.

TABLE 122.—RATES OF FREIGHT, ALL RAIL, FROM MISSOURI RIVER POINTS TO SAN FRANCISCO, PORTLAND, LOS ANGELES, AND OTHER PACIFIC COAST TERMINAL POINTS.

Date.	Commodities (rates in cents per 100 pounds).													
	Dry goods.	Cotton goods		Furniture.		Stoves.		Canned goods.		Glassware.		Starch.		Hardware.
		Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	Less than car-loads.	Car-loads.	
1870—Feb. 10.....	625	625	625	.....	.....	.....	.....	550	550	625	625	625	625	550
1876—Nov. 1.....	450	625	625	.....	185	185	185	550	150	200	150	150	150	225
1880—Jan. 1.....	450	375	225	.....	185	185	185	145	200	200	145	145	145	300
1882—Oct. 2.....	455	375	235	.....	185	185	185	135	210	210	135	135	135	300
1885—Jan. 1.....	375	185	185	.....	185	185	185	100	220	110	100	100	100	185
Mar. 16.....	350	175	140	.....	175	88	88	88	210	105	88	88	88	175
1886—Apr. 26.....	175	87½	70	.....	87½	50	50	52½	105	52½	50	50	50	87½
1887—Apr. 5.....	400	400	250	.....	300	225	225	225	400	250	250	250	225	350
Apr. 27.....	210	105	91	.....	105	70	70	70	140	77	77	77	70	105
June 16.....	210	105	123	.....	105	70	70	70	140	77	77	77	70	105
1888—Mar. 6.....	280	125	125	.....	125	125	125	125	175	95	85	85	80	125
Sept. 1.....	280	125	140	.....	125	125	125	125	175	95	85	85	80	125
1889—Jan. 1.....	351	176	135	.....	125	99	99	99	*270	117	135	135	135	176
1891—Jan. 15.....	350	189	113	.....	125	117	117	107	*302	149	149	149	149	189
1892—July 18.....	350	189	113	.....	125	117	117	107	*302	149	149	149	149	189

* Lower rates for carloads.

TRANSCONTINENTAL TRAFFIC EASTWARD BOUND.

Through rates from the Pacific coast are established by transcontinental lines on traffic destined to the Missouri River and grouped territory east thereof. Traffic carried thereunder is known as "eastward bound transcontinental traffic."

Important reductions have taken place in these rates during the last twenty years. The tables following show such changes from the several Pacific coast points to a representative point in each of the groups to which through rates are published.

REPORT ON CHANGES IN FREIGHT RATES.

TABLE 123.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO OMAHA, NEBR.

Date.	Rates (in cents per 100 pounds).															
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, com-pressed.		Leather, in rolls.		Nuts.		Beans.		Raisins.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1870—Feb. 10.....	550	550	500	550	550	625	625	500	500	625	625	500	500	625	625	550
1876—July 17.....	550	550	500	550	550	625	625	500	500	625	625	500	500	625	625	550
1878—June 15.....	550	550	500	550	550	625	625	500	500	625	625	500	500	625	625	550
1881—May 21.....	150	185	185	200	185	150	185	185	185	275	185	125	125	200	150	225
July 25.....	150	190	190	205	190	150	190	175	175	280	190	125	125	205	150	230
Oct. 6.....	140	140	140	200	140	140	180	140	180	285	180	140	140	200	140	220
1884—Aug. 25.....	140	125	180	200	180	140	180	160	160	285	180	140	140	200	140	220
1885—Feb. 9.....	140	125	180	200	180	140	180	160	160	285	180	116½	116½	200	140	220
Mar. 15.....	140	125	180	200	180	140	180	160	160	285	180	116½	116½	200	140	220
Dec. 1.....	130	125	150	180	130	180	180	150	150	210	180	115	115	190	130	210
1886—Apr. 26.....	65	62½	75	90	65	90	65	75	75	105	90	57½	57½	95	65	210
Aug. 16.....	130	90	150	180	130	180	130	150	150	210	180	60	60	190	130	210
1887—Apr. 5.....	250	140	250	300	250	180	350	300	350	400	300	140	140	350	300	175
Apr. 27.....	130	125	150	180	130	180	130	150	150	210	180	115	115	300	175	175
May 25.....	130	125	123	140	105	140	105	123	123	175	140	88	88	151	105	140
June 16.....	130	88	123	140	105	140	70	140	140	175	140	88	88	151	105	140
July 18.....	105	75	123	140	105	140	70	140	140	175	140	88	88	150	105	140
Oct. 10.....	105	75	123	140	105	140	88	123	123	175	140	75	75	150	105	126
1888—Jan. 16.....	165	75	140	155	125	88	88	123	123	190	190	75	75	165	125	126
Mar. 10.....	165	125	140	155	125	110	88	125	125	190	190	100	100	165	125	126
July 5.....	165	110	140	155	125	110	110	125	125	190	190	100	100	165	125	155
Sept. 1.....	200	110	200	180	140	300	300	300	300	300	160	100	100	300	100	155
1889—Jan. 1.....	200	110	200	200	140	300	300	200	200	300	160	100	100	300	100	200
Jan. 10.....	200	110	200	200	140	300	300	200	200	300	160	100	100	300	100	200
Mar. 1.....	200	120	200	200	140	300	300	200	200	300	160	100	100	300	100	200
May 23.....	200	100	200	200	120	300	300	200	200	300	160	100	100	300	100	200
Aug. 20.....	200	100	200	200	120	300	300	200	200	300	160	100	100	300	100	200
Aug. 24.....	200	100	200	200	120	300	300	200	200	300	160	100	100	300	100	200
Sept. 1.....	200	100	200	200	140	300	300	200	200	300	160	100	100	300	100	200
Oct. 1.....	200	100	200	200	140	300	300	200	200	300	160	100	100	300	100	200
Nov. 1.....	200	100	200	200	140	300	300	200	200	300	160	100	100	300	100	200

1890—June 18.....	200	100	200	80	200	200	140	300	135	300	200	300	160	200	100	300	250	350	100	205	100	200	200
1891—Jan. 22.....	200	100	200	80	200	200	155	300	135	300	200	300	175	200	110	300	250	350	100	225	100	220	200
Sept. 21.....	200	110	200	80	200	200	150	300	135	300	200	200	175	200	110	300	250	350	100	225	100	220	200
1892—Mar. 5.....	200	110	200	80	200	200	150	300	135	300	200	200	175	200	110	300	250	350	200	225	100	220	200
Mar. 18.....	200	100	200	80	200	200	140	300	135	300	200	200	175	200	110	300	250	350	100	225	100	220	200
Nov. 21.....	200	100	200	80	200	200	140	300	135	300	200	200	175	200	110	300	250	850	100	225	100	220	200

1890—June 18.....	205	100	205	80	200	140	320	135	320	300	160	205	100	320	260	370	100	205	100	200
1891—Jan. 22.....	205	110	205	80	220	155	320	135	320	320	175	205	110	320	260	370	100	225	100	200
Sept. 21.....	205	110	205	80	220	150	320	135	320	320	175	205	110	320	260	370	100	225	100	200
1892—Mar. 5.....	205	110	205	80	220	150	320	135	320	320	175	205	110	320	260	370	200	225	100	200
July 18.....	205	100	205	80	220	140	320	135	320	320	175	205	110	320	260	370	100	225	100	200
Nov. 21.....	205	100	205	80	220	140	320	135	320	320	175	205	110	320	260	370	100	225	100	200

TABLE 125.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO CHICAGO, ILL.

Date.	Rates (in cents per 100 pounds).															
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, com-pressed.		Leather in rolls.		Nuts.		Beans.		Raisins.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1870—Feb. 10.....	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420
1876—July 17.....	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420
1877—July 16.....	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420
1878—June 15.....	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420
1881—May 21.....	150	150	.....	.....	225	200	200	150	225	200	200	200	.....	.....	150	150
July 25.....	150	150	200	150	225	200	200	150	225	200	200	200	175	125	225	150
Oct. 6.....	150	150	200	150	225	200	200	150	225	200	200	200	175	125	225	150
1884—Aug. 25.....	150	125	200	150	225	200	200	150	225	200	200	200	175	150	225	150
1885—Feb. 9.....	150	125	200	150	225	200	200	150	225	200	200	200	175	150	225	150
Mar. 15.....	150	125	200	150	225	200	200	150	225	200	200	200	175	150	225	150
Dec. 1.....	150	125	175	125	200	150	200	150	225	200	200	200	175	150	225	150
1886—Mar. 4.....	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½
Mar. 10.....	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Apr. 26.....	75	62½	87½	62½	100	75	100	75	.....	100	125	100	87½	62½	107½	75
Aug. 16.....	150	90	175	125	200	150	200	150	.....	200	250	200	175	150	215	150
Nov. 24.....	150	90	175	125	200	150	200	150	.....	200	250	200	175	150	215	150
1887—Apr. 5.....	275	155	275	245	335	275	.....	400	400	400	470	335	335	335	400	335
Apr. 27.....	150	125	175	125	200	150	200	150	.....	200	250	200	175	150	215	150
May 25.....	125	125	140	100	160	120	160	120	.....	160	200	160	140	120	172	120
June 16.....	.....	100	140	100	160	120	160	120	.....	160	200	160	140	120	172	120
July 18.....	.....	75	140	100	160	120	160	120	.....	160	200	160	140	120	172	120
Oct. 10.....	120	75	140	100	160	120	160	120	.....	160	200	160	140	120	172	120
1888—Jan. 16.....	175	75	150	115	165	130	100	100	.....	80	200	160	140	86	172	120
Mar. 10.....	175	125	150	115	165	130	100	100	255	80	200	160	140	86	172	120
July 5.....	175	110	150	115	165	130	115	115	130	130	200	150	150	100	175	130
Sept. 1.....	175	110	150	115	165	130	115	115	130	130	200	150	150	100	175	130
Sept. 20.....	175	110	210	185	180	140	340	340	340	340	300	210	210	100	340	270
Sept. 20.....	175	110	210	185	180	140	340	340	340	340	300	210	210	100	340	270
1889—Jan. 1.....	210	110	210	115	200	140	340	340	340	340	300	210	210	100	340	270
Jan. 10.....	210	110	210	115	200	140	340	340	340	340	300	210	210	100	340	270
Mar. 1.....	210	120	210	185	200	140	340	340	340	340	300	210	210	100	340	270
Apr. 10.....	210	120	210	185	200	140	340	340	340	340	300	210	210	100	340	270
May 23.....	210	100	210	185	200	120	340	340	340	340	300	210	210	100	340	270
Aug. 20.....	210	100	210	185	200	120	340	340	340	340	300	210	210	100	340	270
Aug. 24.....	210	100	210	185	200	120	340	340	340	340	300	210	210	100	340	270

Sept. 1.....	210	100	210	185	200	140	340	340	340	340	340	340	340	340	300	160	210	100	340	270	390	250	390	100	200
Oct. 1.....	210	100	210	185	200	140	340	340	340	340	340	340	340	340	300	160	210	100	340	270	390	100	390	100	200
Nov. 1.....	210	100	210	185	200	140	340	340	340	340	340	340	340	340	300	160	210	100	340	270	390	100	205	100	200
1890—June 18.....	210	100	210	80	200	140	340	340	340	340	340	340	340	340	300	160	210	100	340	270	390	105	205	100	200
1891—Jan. 22.....	210	110	210	80	220	155	340	340	340	340	340	340	340	340	340	175	210	110	340	270	390	105	225	100	200
Sept. 21.....	210	110	210	80	220	150	340	340	340	340	340	340	340	340	340	175	210	110	340	270	390	105	225	100	200
1892—Mar. 5.....	210	110	210	80	220	150	340	340	340	340	340	340	340	340	340	175	210	110	340	270	390	105	225	100	200
July 18.....	210	100	210	80	220	140	340	340	340	340	340	340	340	340	340	175	210	110	340	270	390	105	255	100	200
Nov. 21.....	210	100	210	80	220	140	340	340	340	340	340	340	340	340	340	175	210	110	340	270	390	105	225	100	200

1890

1890—June 18..... 1891—Jan. 22..... 1892—Mar. 5..... July 18..... Nov. 21.....

REPORT ON CHANGES IN FREIGHT RATES.

TABLE 126.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO CINCINNATI, OHIO.

Date.	Rates (in cents per 100 pounds.)													
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, com-pressed.		Leather, in rolls.		Nuts.		Beans.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1881—May 21.....	150	150	200	150	240	200	200	200	240	200	320	200	175	125
July 25.....	150	150	200	150	240	200	200	200	240	200	320	200	175	125
Oct. 6.....	150	150	200	150	239	200	200	200	239	200	345	200	175	150
1884—Aug. 25.....	150	125	200	150	239	200	200	200	239	200	345	200	175	150
1885—Feb. 9.....	150	125	200	150	239	200	200	200	239	200	345	200	175	150
Dec. 1.....	150	125	175	125	200	200	200	200	200	200	255	200	175	125
1886—Mar. 5.....	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Apr. 26.....	84	70	98	70	112	84	112	112	112	112	142½	112	98	70
Aug. 16.....	150	90	175	125	200	150	200	200	200	200	255	200	175	75
Nov. 24.....	150	90	175	125	200	150	200	200	200	200	255	200	175	75
1887—July 18.....	128	85	149	106	170	85	85	170	170	170	213	170	149	106
Oct. 10.....	128	85	149	106	170	106	106	85	85	170	213	170	149	91
1888—Sept. 20.....	128	85	149	122	170	106	106	85	85	170	213	170	149	91
1889—Jan. 1.....	215	110	215	122	200	140	135	215	345	160	300	160	215	100
Jan. 10.....	215	110	215	190	200	140	135	215	345	160	300	160	215	100
Mar. 1.....	215	120	215	190	200	140	135	215	345	160	300	160	215	100
May 23.....	215	100	215	190	200	120	135	215	345	160	300	160	215	100
Aug. 20.....	215	100	215	190	200	120	135	215	345	160	300	160	215	100
Sept. 24.....	215	100	215	190	200	120	135	215	345	160	300	160	215	100
Oct. 1.....	215	100	215	190	200	140	135	215	345	160	300	160	215	100
Nov. 1.....	215	100	215	190	200	140	135	215	345	160	300	160	215	100
1890—June 18.....	215	100	215	190	200	140	135	215	345	160	300	160	215	100
1891—Jan. 22.....	215	110	215	190	220	155	135	215	345	175	345	175	215	110
Sept. 21.....	215	110	215	190	220	150	135	215	345	175	345	175	215	110
1892—July 18.....	215	100	215	190	220	140	135	215	345	175	345	175	215	110
Nov. 21.....	215	100	215	190	220	140	135	215	345	175	345	175	215	110

Less than carloads.	Carloads.	Less than carloads.	Carloads.
265	265	265	265
175	150	265	265
175	150	265	265
175	150	265	265
175	150	265	265
175	150	255	265
44	44	44	44
44	44	44	44
87½	75	253	253
87½	75	253	253
149	106	163	153
149	80	163	163
149	80	163	163
395	395	200	200
395	395	200	200
395	395	200	200
395	395	200	200
395	395	200	200
395	100	200	200
395	100	200	200
395	100	200	200
395	100	200	200
205	100	200	200
205	100	200	200
205	100	200	200
225	100	220	200
225	100	220	200
225	100	220	200
225	100	220	200
225	100	220	200

TABLE 127.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO PITTSBURG, PA.

Date.	Rates (in cents per 100 pounds).													
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, com-pressed.		Leather, in rolls.		Nuts.		Beans.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1881—May 21.....	150	150	200	150	250	200	200	200	250	200	345	200	175	125
July 25.....	150	150	200	150	250	200	200	200	250	200	345	200	175	125
Oct. 6.....	150	150	200	150	250	200	200	200	250	200	362	200	175	150
1884—Aug. 25.....	150	125	200	150	250	200	200	200	250	200	362	200	175	150
1885—Dec. 1.....	150	125	175	125	200	200	200	200	.....	200	270	200	175	125
1886—Apr. 26.....	89	74½	104	74½	104	89	119	119	.....	119	160	119	104	74½
Aug. 16.....	150	90	175	125	200	150	200	200	.....	200	270	200	175	67
Sept. 27.....	150	90	175	125	200	150	200	200	.....	200	270	200	175	62½
Nov. 24.....	150	90	175	125	200	150	200	200	.....	200	270	200	175	62½
1887—Feb. 2.....	150	90	175	125	200	150	200	200	.....	200	270	200	175	57½
July 18.....	135	90	158	113	180	135	90	180	.....	180	225	180	158	113
Oct. 10.....	135	90	158	113	180	135	113	90	.....	90	225	180	158	113
1888—Jan. 16.....	198	90	160	120	180	140	113	288	.....	90	225	180	198	135
Mar. 10.....	198	125	160	120	180	140	120	140	.....	140	225	225	198	140
July 5.....	198	110	160	120	180	140	120	140	.....	140	225	225	198	140
Sept. 1.....	220	110	220	195	180	140	350	350	.....	350	300	160	220	105
1889—Jan. 1.....	220	110	220	195	200	140	350	350	.....	350	300	160	220	100
Jan. 10.....	220	110	220	195	200	140	350	350	.....	350	300	160	220	100
Mar. 1.....	220	120	220	195	200	140	350	350	.....	350	300	160	220	100
May 23.....	220	100	220	195	200	120	350	350	.....	350	300	160	220	100
Aug. 20.....	220	100	220	195	200	120	350	350	.....	350	300	160	220	100
Oct. 24.....	220	100	220	195	200	120	350	350	.....	350	300	160	220	100
1890—Jan. 1.....	220	100	220	195	200	140	350	350	.....	350	300	160	220	100
Nov. 1.....	220	100	220	195	200	140	350	350	.....	350	300	160	220	100
1891—June 18.....	220	100	220	195	200	140	350	350	.....	350	300	160	220	100
1891—Jan. 22.....	220	110	220	195	220	155	350	350	.....	350	350	175	220	110
Sept. 21.....	220	110	220	195	220	150	350	350	.....	350	350	175	220	110
1892—July 18.....	220	100	220	195	220	140	350	350	.....	350	350	175	220	110
Nov. 21.....	220	100	220	195	220	140	350	350	.....	350	350	175	220	110

Date.

Oct. 1.....	230	100	230	200	140	370	135	370	300	160	230	100	370	295	420	145	420	420	200
Nov. 1.....	230	100	230	200	140	370	135	370	300	160	230	100	370	295	420	145	205	100	200
1890—June 18.....	230	100	230	200	140	370	135	370	300	160	230	100	370	295	420	145	205	100	200
1891—Jan. 22.....	230	110	230	200	155	370	135	370	370	175	230	110	370	295	420	145	225	100	220
Sept. 21.....	230	110	230	200	150	370	135	370	370	175	230	110	370	295	420	145	225	100	220
1892—July 18.....	230	100	230	200	140	370	135	370	370	175	230	110	370	295	420	145	225	100	220
Nov. 21.....	230	100	230	200	140	370	135	370	370	175	230	110	370	295	420	145	225	100	220

MISCELLANEOUS DATA—OCEAN RATES—MILEAGE RATES—TON- NAGE MOVEMENT.

OCEAN RATES FROM NEW YORK TO LIVERPOOL, ENGLAND.

Data have been collected showing the rates charged on wheat and provisions from New York to Liverpool, England, via steamers, and the same are below given, showing the changes as reported from 1866 up to the present time.

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL VIA STEAMERS FROM JANUARY 3, 1866.

Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.
	Cents.	Dolls.		Cents.	Dolls.		Cents.	Dolls.
1866—Jan. 3 ..	9	.....	1868—Feb. 1 ..	21	.....	1870—Mar. 2 ..	4	.....
Jan. 17 ..	9	.....	Feb. 15 ..	21	.....	Mar. 16 ..	9	.....
Feb. 3 ..	12	.....	Mar. 4 ..	20	.....	Apr. 2 ..	6	.....
Feb. 17 ..	13	.....	Mar. 14 ..	16	.....	Apr. 16 ..	6½	.....
Mar. 3 ..	11	.....	Apr. 1 ..	16	.....	May 4 ..	8	.....
Mar. 17 ..	11½	.....	Apr. 15 ..	13	.....	May 18 ..	8	.....
Apr. 4 ..	8	.....	May 2 ..	13	.....	June 1 ..	9½	.....
Apr. 18 ..	4	.....	May 16 ..	11½	.....	June 15 ..	11	.....
May 2 ..	6½	.....	June 3 ..	11	.....	July 2 ..	8	.....
May 16 ..	7½	.....	June 17 ..	9	.....	July 16 ..	14	.....
June 2 ..	7½	.....	July 1 ..	11	.....	Aug. 3 ..	24	.....
June 16 ..	8	.....	July 15 ..	12	.....	Aug. 17 ..	11	.....
July 4 ..	10½	.....	Aug. 1 ..	13	.....	Sept. 3 ..	14	.....
July 18 ..	9½	.....	Aug. 15 ..	9	.....	Sept. 17 ..	17	.....
Aug. 1 ..	9	.....	Sept. 2 ..	9	.....	Oct. 1 ..	12	.....
Aug. 15 ..	10	.....	Sept. 16 ..	8	.....	Oct. 15 ..	17½	.....
Sept. 1 ..	9½	.....	Oct. 3 ..	16	.....	Nov. 2 ..	20	.....
Sept. 15 ..	10½	.....	Oct. 17 ..	16	.....	Nov. 16 ..	19	.....
Oct. 3 ..	10½	.....	Nov. 4 ..	15	.....	Dec. 3 ..	16½	.....
Oct. 17 ..	10	.....	Nov. 18 ..	16	.....	Dec. 17 ..	15	.....
Nov. 3 ..	9	.....	Dec. 2 ..	13	.....	1871—Jan. 4 ..	16	.....
Nov. 14 ..	8	.....	Dec. 16 ..	12½	.....	Jan. 18 ..	12½	.....
Dec. 1 ..	12	.....	1869—Jan. 2 ..	19	.....	Feb. 1 ..	14	.....
Dec. 15 ..	11	.....	Jan. 16 ..	16½	.....	Feb. 15 ..	15	.....
1867—Jan. 5 ..	5½	.....	Feb. 3 ..	15	.....	Mar. 1 ..	14	.....
Jan. 16 ..	8	.....	Feb. 17 ..	10½	.....	Mar. 15 ..	12	.....
Feb. 2 ..	13	.....	Mar. 3 ..	8½	.....	Apr. 1 ..	12½	.....
Feb. 16 ..	13	.....	Mar. 17 ..	7	.....	Apr. 15 ..	16½	.....
Mar. 2 ..	13	.....	Apr. 3 ..	5	.....	May 3 ..	11	.....
Mar. 16 ..	10	.....	Apr. 17 ..	4	.....	May 17 ..	16½	.....
Apr. 3 ..	6½	.....	May 1 ..	2	.....	June 3 ..	17	.....
Apr. 17 ..	7	.....	May 15 ..	7	.....	June 17 ..	12	.....
May 1 ..	8	.....	June 2 ..	15	.....	July 1 ..	17½	.....
May 15 ..	6	.....	June 16 ..	13	.....	July 15 ..	16	.....
June 1 ..	5	.....	July 3 ..	16	.....	Aug. 2 ..	10½	.....
June 15 ..	8	.....	July 18 ..	18	.....	Aug. 16 ..	17½	.....
July 3 ..	8	.....	Aug. 4 ..	7½	.....	Sept. 2 ..	21	.....
July 17 ..	8	.....	Aug. 18 ..	21	.....	Sept. 16 ..	24	.....
Aug. 3 ..	7	.....	Sept. 1 ..	18½	.....	Oct. 4 ..	22	.....
Aug. 17 ..	7	.....	Sept. 15 ..	21	.....	Oct. 18 ..	23	.....
Sept. 4 ..	4	.....	Oct. 2 ..	20	.....	Nov. 1 ..	19	.....
Sept. 18 ..	11	.....	Oct. 16 ..	14½	.....	Nov. 15 ..	15	.....
Oct. 2 ..	12	.....	Nov. 3 ..	17	.....	Dec. 2 ..	15	.....
Oct. 16 ..	22	.....	Nov. 17 ..	15½	.....	Dec. 16 ..	15	.....
Nov. 2 ..	19	.....	Dec. 1 ..	10	.....	1872—Jan. 3 ..	12	.....
Nov. 16 ..	17	.....	Dec. 15 ..	10	.....	Jan. 17 ..	15	.....
Dec. 4 ..	18	.....	1870—Jan. 5 ..	8	.....	Feb. 3 ..	13	.....
Dec. 18 ..	12	.....	Jan. 15 ..	10	.....	Feb. 17 ..	13	.....
1868—Jan. 1 ..	11½	.....	Feb. 2 ..	8½	.....	Mar. 2 ..	13½	.....
Jan. 15 ..	15	.....	Feb. 16 ..	6	.....	Mar. 16 ..	12	.....

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL, ETC.—Continued.

Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.
	Cents.	Dolls.		Cents.	Dolls.		Cents.	Dolls.
1872—Apr. 3 ..	8	.....	1875—May 7 ..	13	6.00	1877—Mar. 9 ..	11	6.00
Apr. 17 ..	8½	.....	May 11 ..	13	6.00	Mar. 16 ..	9	4.80
May 1 ..	8	.....	May 14 ..	12½	6.00	Mar. 23 ..	8	4.20
May 15 ..	9½	.....	May 18 ..	12	6.60	Mar. 30 ..	8	3.60
June 1 ..	14	.....	May 21 ..	13	6.60	Apr. 6 ..	8	3.60
June 15 ..	17	.....	May 25 ..	18	8.40	Apr. 13 ..	12	4.80
July 3 ..	15½	.....	May 28 ..	18	8.40	Apr. 20 ..	11	4.80
July 17 ..	18½	.....	June 1 ..	18	8.40	Apr. 27 ..	16	9.60
Aug. 3 ..	16	.....	June 4 ..	16	9.60	May 4 ..	12	9.60
Aug. 17 ..	17½	.....	June 8 ..	16	9.60	May 11 ..	11	9.60
Sept. 4 ..	20	.....	June 11 ..	17	9.60	May 18 ..	12	9.60
Sept. 18 ..	22	.....	June 15 ..	15	8.40	May 25 ..	14	9.60
Oct. 2 ..	24	.....	June 18 ..	15	8.40	June 1 ..	13½	8.40
Oct. 16 ..	20	.....	June 22 ..	15	8.40	June 8 ..	11	9.60
Nov. 2 ..	18	.....	June 25 ..	16	8.40	June 15 ..	8	6.00
Nov. 16 ..	18½	.....	June 29 ..	16	8.40	June 22 ..	8½	6.00
Dec. 4 ..	18½	.....	1876—Jan. 7 ..	18	9.60	June 29 ..	10	6.00
Dec. 18 ..	16	.....	Jan. 14 ..	17½	9.00	July 6 ..	9	4.80
1873—Jan. 1 ..	17	.....	Jan. 21 ..	16	7.80	July 13 ..	10	4.80
Jan. 15 ..	15½	.....	Jan. 28 ..	16	7.20	July 20 ..	12	4.80
Feb. 1 ..	14½	.....	Feb. 4 ..	16½	8.40	July 27 ..	11	6.00
Feb. 15 ..	14	.....	Feb. 11 ..	16	7.80	Aug. 3 ..	12	6.00
Mar. 1 ..	14	.....	Feb. 18 ..	16	7.20	Aug. 10 ..	17	9.60
Mar. 15 ..	14	.....	Feb. 25 ..	15	7.20	Aug. 17 ..	16	9.60
Apr. 2 ..	16	.....	Mar. 3 ..	15	7.20	Aug. 24 ..	22	9.60
Apr. 16 ..	17	.....	Mar. 10 ..	15	7.20	Aug. 31 ..	23	9.60
May 3 ..	11	.....	Mar. 17 ..	16	7.20	Sept. 7 ..	20	10.80
May 17 ..	17	.....	Mar. 24 ..	17	7.20	Sept. 14 ..	21	9.60
June 4 ..	22	.....	Mar. 31 ..	15	7.20	Sept. 21 ..	18	8.40
June 18 ..	24	.....	Apr. 7 ..	10	6.00	Sept. 28 ..	18	8.40
July 2 ..	24	.....	Apr. 14 ..	8	6.00	Oct. 5 ..	17	8.40
July 16 ..	25	.....	Apr. 21 ..	9	4.80	Oct. 12 ..	18½	8.40
Aug. 2 ..	27	.....	Apr. 28 ..	13	6.00	Oct. 19 ..	20	8.40
Aug. 16 ..	25	.....	May 5 ..	16	7.20	Oct. 26 ..	20½	8.94
Sept. 3 ..	26	.....	May 12 ..	17	8.40	Nov. 2 ..	18½	8.40
Sept. 17 ..	27	.....	May 19 ..	17	9.60	Nov. 9 ..	17	7.68
Oct. 1 ..	27	.....	May 26 ..	16	9.60	Nov. 16 ..	16	7.68
Oct. 15 ..	26	.....	June 2 ..	19	9.60	Nov. 23 ..	16½	7.80
Nov. 1 ..	27	.....	June 9 ..	18	9.60	Nov. 30 ..	16	7.20
Nov. 15 ..	28	.....	June 20 ..	17	9.60	Dec. 7 ..	15	7.20
Dec. 3 ..	24½	.....	June 23 ..	16½	9.60	Dec. 14 ..	16	8.40
Dec. 17 ..	24½	.....	June 30 ..	14	9.60	Dec. 21 ..	17	9.60
1875—Jan. 5 ..	23	\$12.00	July 7 ..	17	9.60	Dec. 28 ..	19	9.60
Jan. 8 ..	24	12.00	July 14 ..	19	9.60	1878—Jan. 4 ..	19	9.60
Jan. 12 ..	21½	12.00	July 21 ..	20	9.60	Jan. 11 ..	20	9.60
Jan. 15 ..	22	12.00	July 28 ..	18½	9.60	Jan. 18 ..	19	9.60
Jan. 19 ..	21	12.00	Aug. 4 ..	16	9.60	Jan. 25 ..	19	9.60
Jan. 22 ..	21	10.80	Aug. 11 ..	17	9.60	Feb. 1 ..	19	9.60
Jan. 26 ..	21	9.60	Aug. 18 ..	14	8.40	Feb. 8 ..	19	9.60
Jan. 29 ..	22	9.60	Aug. 25 ..	15	8.40	Feb. 15 ..	20	9.60
Feb. 2 ..	21½	9.60	Sept. 1 ..	16	8.40	Feb. 22 ..	18	9.60
Feb. 5 ..	21½	9.60	Sept. 8 ..	17	9.00	Mar. 1 ..	16	9.00
Feb. 9 ..	22	9.60	Sept. 15 ..	17	8.40	Mar. 8 ..	15	7.80
Feb. 12 ..	21	9.60	Sept. 22 ..	15½	7.80	Mar. 15 ..	13½	6.60
Feb. 16 ..	15	7.20	Sept. 29 ..	16	7.20	Mar. 22 ..	13½	6.00
Feb. 19 ..	16	7.20	Oct. 6 ..	17½	7.20	Mar. 29 ..	14	6.00
Feb. 23 ..	17½	7.20	Oct. 13 ..	16	7.80	Apr. 5 ..	16½	7.20
Feb. 26 ..	16	7.20	Oct. 20 ..	18	8.40	Apr. 12 ..	16	7.20
Mar. 2 ..	14	7.20	Oct. 27 ..	15	8.40	Apr. 23 ..	14	6.60
Mar. 5 ..	15½	7.20	Nov. 3 ..	15½	8.40	Apr. 26 ..	15	6.60
Mar. 9 ..	15½	7.20	Nov. 10 ..	15	8.40	May 3 ..	17	6.60
Mar. 12 ..	14	7.20	Nov. 17 ..	16	10.80	May 10 ..	16	7.20
Mar. 16 ..	13½	6.60	Nov. 24 ..	18	11.40	May 17 ..	17	7.20
Mar. 19 ..	15	7.20	Dec. 1 ..	18	11.40	May 24 ..	15½	7.20
Mar. 23 ..	15	7.20	Dec. 8 ..	18	11.28	May 31 ..	16	7.20
Mar. 26 ..	14½	7.20	Dec. 15 ..	17	10.80	June 7 ..	16½	7.20
Mar. 30 ..	14	7.20	Dec. 22 ..	16	10.80	June 14 ..	16½	7.20
Apr. 2 ..	14	6.60	Dec. 29 ..	17	10.80	June 21 ..	16½	7.20
Apr. 6 ..	12	6.00	1877—Jan. 5 ..	14	9.60	June 28 ..	15½	7.80
Apr. 9 ..	12	6.00	Jan. 12 ..	14	9.60	July 9 ..	14	7.80
Apr. 13 ..	12	6.00	Jan. 19 ..	13	9.60	July 12 ..	14	7.20
Apr. 16 ..	13	6.00	Jan. 26 ..	12	8.40	July 19 ..	13½	7.20
Apr. 20 ..	13	6.00	Feb. 2 ..	9½	7.20	July 26 ..	12	7.20
Apr. 23 ..	10	6.00	Feb. 9 ..	11	7.20	Aug. 2 ..	15½	7.20
Apr. 27 ..	12	6.00	Feb. 16 ..	10	7.20	Aug. 9 ..	16	7.20
Apr. 30 ..	13	6.00	Feb. 23 ..	9½	6.60	Aug. 16 ..	16	7.20
May 4 ..	12	6.00	Mar. 2 ..	9	6.00	Aug. 23 ..	15	7.20

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL, ETC.—Continued.

Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.
	Cents.	Dolls.		Cents.	Dolls.		Cents.	Dolls.
1878—Aug. 30 ..	14	7.20	1880—Feb. 27 ..	11	7.20½	1881—Sept. 2 ..	8½	5.40
Sept. 6 ..	12½	7.20	Mar. 5 ..	10	6.60	Sept. 9 ..	6	4.80
Sept. 13 ..	11	6.60	Mar. 12 ..	10½	7.20	Sept. 16 ..	7	4.80
Sept. 20 ..	11	6.00	Mar. 19 ..	12½	7.20	Sept. 23 ..	5½	4.80
Sept. 27 ..	12½	6.60	Mar. 30 ..	15	7.20	Sept. 30 ..	6	3.60
Oct. 4 ..	13	8.40	Apr. 2 ..	15	7.20	Oct. 7 ..	6	3.60
Oct. 11 ..	13	9.00	Apr. 9 ..	13½	7.20	Oct. 14 ..	6	3.00
Oct. 18 ..	15	9.00	Apr. 16 ..	13	7.20	Oct. 21 ..	5	2.40
Oct. 25 ..	15	9.00	Apr. 23 ..	9	7.20	Oct. 28 ..	6	2.40
Nov. 1 ..	16	9.00	Apr. 30 ..	9	6.00	Nov. 4 ..	7½	2.40
Nov. 8 ..	15½	9.00	May 7 ..	9	6.00	Nov. 11 ..	9	2.40
Nov. 15 ..	15	9.00	May 14 ..	9	6.00	Nov. 18 ..	8½	3.00
Nov. 22 ..	15½	9.60	May 21 ..	10	6.00	Nov. 25 ..	8	3.00
Nov. 29 ..	15½	9.60	May 28 ..	8	6.00	Dec. 2 ..	7	3.00
Dec. 6 ..	14½	8.40	June 4 ..	8	6.00	Dec. 9 ..	6½	3.00
Dec. 13 ..	12	7.20	June 11 ..	9½	6.00	Dec. 16 ..	6	3.00
Dec. 20 ..	11	6.00	June 18 ..	11	6.00	Dec. 27 ..	5	3.00
Dec. 27 ..	11½	6.00	June 25 ..	12	6.00	Dec. 30 ..	5½	3.00
1879—Jan. 3 ..	10½	.....	July 2 ..	12	6.00	1882—Jan. 6 ..	6½	4.20
Jan. 10 ..	12	.....	July 9 ..	13	6.00	Jan. 13 ..	6½	4.80
Jan. 17 ..	11½	.....	July 16 ..	13	6.60	Jan. 20 ..	7½	4.80
Jan. 25 ..	12½	.....	July 23 ..	16½	6.60	Jan. 27 ..	7½	5.40
Jan. 31 ..	11½	.....	July 30 ..	18½	7.20	Feb. 3 ..	7½	5.40
Feb. 7 ..	11½	.....	Aug. 6 ..	17	8.40	Feb. 10 ..	7	5.40
Feb. 14 ..	12	.....	Aug. 13 ..	14½	8.40	Feb. 17 ..	8½	4.80
Feb. 21 ..	12	.....	Aug. 20 ..	13½	7.20	Feb. 24 ..	8½	4.80
Feb. 28 ..	12	.....	Aug. 27 ..	14	7.20	Mar. 3 ..	7	4.20
Mar. 7 ..	12½	.....	Sept. 3 ..	12½	7.20	Mar. 10 ..	7	4.20
Mar. 14 ..	13	.....	Sept. 10 ..	11	7.20	Mar. 17 ..	5½	3.00
Mar. 25 ..	12	.....	Sept. 17 ..	11	7.20	Mar. 24 ..	4	2.40
Mar. 28 ..	11½	.....	Sept. 24 ..	11	7.20	Mar. 31 ..	4	2.40
Apr. 4 ..	11½	.....	Oct. 1 ..	11	7.20	Apr. 11 ..	1	1.80
Apr. 15 ..	12	.....	Oct. 8 ..	13	7.20	Apr. 14 ..	½	1.80
Apr. 18 ..	12	.....	Oct. 15 ..	12½	7.20	Apr. 21 ..	2	1.20
Apr. 25 ..	12½	.....	Oct. 22 ..	12	7.20	Apr. 28 ..	3	1.20
May 2 ..	11	.....	Oct. 29 ..	13	7.20	May 5 ..	2	1.20
May 9 ..	10½	.....	Nov. 5 ..	14½	8.40	May 12 ..	½	1.20
May 16 ..	10½	.....	Nov. 12 ..	15	9.60	May 19 ..	1	1.20
May 23 ..	10½	.....	Nov. 19 ..	15½	10.80	May 26 ..	.....	1.20
May 27 ..	10½	.....	Nov. 26 ..	15½	10.20	June 2 ..	.....	.60
June 6 ..	10½	.....	Dec. 3 ..	15	10.20	June 9 ..	4	1.20
June 13 ..	10	.....	Dec. 10 ..	15	9.60	June 16 ..	7	3.60
June 20 ..	9½	.....	Dec. 17 ..	15	8.40	June 23 ..	8	4.80
June 27 ..	8½	.....	Dec. 29 ..	13½	8.40	June 30 ..	6	4.80
July 8 ..	8	.....	1881—Jan. 7 ..	13	7.20	July 7 ..	8	4.20
July 11 ..	10	.....	Jan. 14 ..	14½	7.20	July 14 ..	8	3.60
July 18 ..	13	.....	Jan. 21 ..	14	7.68	July 21 ..	10	4.80
July 25 ..	15	.....	Jan. 28 ..	12	7.20	July 28 ..	12	6.00
Aug. 1 ..	15½	.....	Feb. 4 ..	10½	7.20	Aug. 4 ..	10½	4.80
Aug. 8 ..	17	.....	Feb. 11 ..	10½	7.20	Aug. 11 ..	8	4.80
Aug. 15 ..	15	.....	Feb. 18 ..	11	7.80	Aug. 18 ..	9	4.20
Aug. 22 ..	15½	.....	Feb. 25 ..	11	7.80	Aug. 25 ..	9	4.20
Aug. 29 ..	15½	.....	Mar. 4 ..	.....	7.80	Sept. 1 ..	10½	4.20
Sept. 5 ..	14	.....	Mar. 11 ..	10	7.20	Sept. 8 ..	10	6.00
Sept. 12 ..	13	.....	Mar. 18 ..	9	6.00	Sept. 15 ..	10	4.80
Sept. 19 ..	15½	.....	Mar. 25 ..	9	5.40	Sept. 22 ..	8	4.20
Sept. 26 ..	15½	.....	Apr. 1 ..	9	4.80	Sept. 29 ..	7	4.20
Oct. 3 ..	18	.....	Apr. 8 ..	9½	4.80	Oct. 6 ..	9	6.00
Oct. 10 ..	18	.....	Apr. 19 ..	8½	4.80	Oct. 13 ..	9	7.20
Oct. 17 ..	17	.....	Apr. 22 ..	8	4.80	Oct. 20 ..	7½	7.20
Oct. 24 ..	15½	.....	Apr. 29 ..	5½	4.20	Oct. 27 ..	7½	6.00
Oct. 30 ..	13½	.....	May 6 ..	4	3.60	Nov. 3 ..	10	6.00
Nov. 7 ..	16	.....	May 13 ..	4	3.00	Nov. 10 ..	10	6.60
Nov. 14 ..	13	.....	May 20 ..	7	3.00	Nov. 17 ..	10½	6.00
Nov. 21 ..	12½	.....	May 27 ..	5	2.40	Nov. 24 ..	13	4.80
Nov. 28 ..	12½	.....	June 3 ..	6½	2.40	Dec. 1 ..	14	7.20
Dec. 5 ..	10½	.....	June 10 ..	7	2.40	Dec. 8 ..	17	9.60
Dec. 12 ..	8	.....	June 17 ..	7	3.00	Dec. 15 ..	13½	9.60
Dec. 19 ..	8	.....	June 24 ..	6	3.00	Dec. 22 ..	13	9.60
Dec. 30 ..	6	.....	July 5 ..	7½	3.00	Dec. 29 ..	14	8.40
1880—Jan. 6 ..	6	3.60	July 15 ..	9	3.60	1883—Jan. 5 ..	15	7.80
Jan. 16 ..	8	4.80	July 22 ..	9½	3.60	Jan. 12 ..	15	8.40
Jan. 23 ..	8	4.80	July 29 ..	11	5.40	Jan. 19 ..	14	8.40
Jan. 30 ..	6	4.80	Aug. 5 ..	10½	5.40	Jan. 26 ..	13	8.40
Feb. 6 ..	5½	4.20	Aug. 12 ..	12	5.40	Feb. 2 ..	14	7.80
Feb. 13 ..	6	4.20	Aug. 19 ..	9	5.40	Feb. 9 ..	14½	8.40
Feb. 20 ..	5½	4.20	Aug. 26 ..	9	5.40	Feb. 16 ..	12½	8.40

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL, ETC.—Continued.

Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.	Date.	Wheat per bushel.	Provi- sions per ton.
	<i>Cents.</i>	<i>Dolls.</i>		<i>Cents.</i>	<i>Dolls.</i>		<i>Cents.</i>	<i>Dolls.</i>
1883—Feb. 23 ..	12	7.74	1884—May 23 ..	5½	3.60	1889—Sept	9½	3.48
Mar. 2 ..	11	5.40	May 30 ..	5½	4.20	Oct	9½	3.80
Mar. 9 ..	9	5.40	June 6 ..	6	4.20	Nov	9½	3.82½
Mar. 16 ..	8	4.80	June 13 ..	6	4.20	Dec	9½	4.05
Mar. 20 ..	6½	3.60	June 20 ..	6½	4.20	1890—Jan	11½	7.50
Mar. 27 ..	4½	2.70	June 27 ..	6½	3.60	Feb	10½	7.35
Apr. 6 ..	5	3.60	July 4 ..	6½	4.20	Mar	8	5.77½
Apr. 13 ..	6½	4.80	July 11 ..	9½	4.80	Apr	4	4.47
Apr. 20 ..	5½	3.72	July 18 ..	10	4.80	May	4½	3.18½
Apr. 27 ..	2½	2.40	July 25 ..	9½	5.40	June	3½	3.00
May 4 ..	5	2.40	Aug. 1 ..	10	5.40	July	4½	3.30
May 11 ..	7	3.00	Aug. 8 ..	11	6.00	Aug	2	2.70
May 18 ..	6	3.00	Aug. 15 ..	9	6.00	Sept	1½	2.40
May 25 ..	6½	3.00	Aug. 22 ..	8	6.00	Oct	½	1.86½
June 1 ..	7	3.00	Aug. 29 ..	9	4.80	Nov	4½	3.30
June 8 ..	5	3.00	Sept. 5 ..	5	3.60	Dec	5	4.35
June 15 ..	4	3.00	Sept. 12 ..	5	3.60	1891—Jan	7½	4.87
June 22 ..	6	3.00	Sept. 19 ..	6	3.60	Feb	4½	4.65
June 29 ..	6	3.00	Sept. 26 ..	7	4.20	Mar	3	3.41½
July 6 ..	7	3.00	Oct. 3 ..	7½	6.00	Apr	3	3.00
July 13 ..	7½	3.00	Oct. 10 ..	7	6.00	May	3½	2.24½
July 20 ..	10	3.60	Oct. 17 ..	7	6.00	June	4	2.85
July 27 ..	10	3.60	Oct. 24 ..	7	6.00	July	4	3.30
Aug. 3 ..	9	3.60	Oct. 31 ..	7½	6.00	Aug	6	3.30
Aug. 10 ..	8	4.20	Nov. 7 ..	10	6.60	Sept	8½	4.42½
Aug. 17 ..	7½	4.20	Nov. 14 ..	12	8.40	Oct	11½	6.18
Aug. 24 ..	5½	3.60	Nov. 21 ..	12	7.20	Nov	11½	6.90
Aug. 31 ..	5½	3.60	Nov. 28 ..	12	7.20	Dec	8½	6.36
Sept. 7 ..	7½	3.00	Dec. 5 ..	12	8.40	1892—Jan	9	.....
Sept. 14 ..	7	3.00	Dec. 12 ..	12	7.20	Feb	6½	.....
Sept. 21 ..	7½	3.00	Dec. 19 ..	12	7.20	Mar	7½	.....
Sept. 28 ..	8	4.20	Dec. 26 ..	13	6.60	Apr	3½	.....
Oct. 5 ..	8½	3.60	1887—Jan	9	5.47½	May	4½	.....
Oct. 12 ..	9	4.80	Feb	7½	5.10	June	4	.....
Oct. 19 ..	10	6.00	Mar	3½	3.12	July	5½	.....
Oct. 26 ..	10	6.00	Apr	2	2.25	Aug	4½	.....
Nov. 3 ..	10	6.60	May	4	2.10	Sept	4	.....
Nov. 10 ..	8	6.60	June	4	2.10	Oct	6	.....
Nov. 17 ..	9½	5.28	July	6	3.60	Nov	4½	.....
Nov. 24 ..	9	6.00	Aug	4½	3.97½			
Dec. 1 ..	8	6.00	Sept	2½	2.66½			
Dec. 8 ..	8	5.40	Oct	5½	3.60			
Dec. 15 ..	6	4.20	Nov	6½	4.50			
Dec. 22 ..	6	4.20	Dec	5½	4.26			
Dec. 29 ..	3	2.00	1888—Jan	4½	3.52			
1884—Jan. 4 ..	4	4.80	Feb	2½	2.85			
Jan. 11 ..	7½	4.80	Mar	1½	1.85			
Jan. 18 ..	6	6.00	Apr	¾	1.65			
Jan. 25 ..	8	6.00	May	1½	1.68			
Feb. 1 ..	6½	4.80	June	2½	2.14			
Feb. 8 ..	6	4.80	July	3½	2.34			
Feb. 15 ..	5	4.80	Aug	7	3.41			
Feb. 22 ..	5	4.80	Sept	9½	6.00			
Feb. 29 ..	3½	3.00	Oct	7½	6.00			
Mar. 7 ..	4	3.00	Nov	11	6.96			
Mar. 14 ..	2	3.00	Dec	10	7.08			
Mar. 21 ..	2	3.00	1889—Jan	9½	3.96			
Mar. 28 ..	4	2.40	Feb	9½	3.15			
Apr. 4 ..	4	3.00	Mar	5½	2.55			
Apr. 15 ..	4	2.40	Apr	4½	2.40			
Apr. 22 ..	4½	2.40	May	6½	2.22			
Apr. 29 ..	4½	2.40	June	5½	2.25			
May 9 ..	2	2.10	July	6½	2.58			
May 16 ..	2	2.40	Aug	4½	3.75			

NOTE.—For years 1887 to 1892, figures shown are monthly averages.

AVERAGE FREIGHT RATES PER TON PER MILE.

No presentation of the tendency toward lower charges for freight transportation by railways is at once so comprehensive, accurate, and readily understood as a statement of the average charges per ton per mile prevailing during successive periods. Such a statement has the advantage over all others that no portion of traffic is excluded, but that all business, whether through or local, of relatively great or inconsiderable importance, is represented in the final average.

Table No. 130 following is arranged to show the average freight rates per ton per mile charged by a number of important railways which have been selected with a view to the presentation of fairly representative data covering each of the physical divisions of the railway system. It has been found practicable to include in this table the average rates for several roads from 1852; many others are given for periods covering their entire existence, and it may be said that the table as here presented is much more complete than any heretofore published.

The full significance of these data cannot be appreciated by a merely superficial examination; they should be considered in connection with tables Nos. 131, 132, and 133, showing, respectively, the number of millions of tons of freight carried 1 mile, the number of tons carried regardless of distance, and the gross freight earnings of the same railways. Selecting as an individual example the Fitchburg Railroad, it is observed that its gross revenue from freight in 1852 was 3.12 cents for each ton carried 1 mile, or more than three times the amount received in 1892 for the same service, which was 0.925 cent.

The earliest years for which it is possible to present statistics of the amount of traffic for this road is 1860. During that year the average rate per ton per mile was 4.10 cents, the aggregate transportation of freight was equivalent to the carriage of 9,000,000 tons 1 mile, and the actual number of tons carried was 395,003. During 1892 the tonnage carried was 4,570,377, and the ton mileage 496,000,000. The average distance carried (and it should be remembered that this is a most important factor in the tendency toward cheaper transportation) increased from 22.7 miles in 1860 to 108.5 miles in 1892.

Had the tonnage of 1892 been carried at the rates of 1860, the gross freight earnings would have amounted to more than twenty-one millions, or over sixteen millions more than was actually received. Conversely, had the rates of 1892 been charged upon the business of 1860, the gross freight revenue, which was \$369,000, would have been only about \$84,000, a sum probably wholly insufficient to have paid the expenses of operation.

Such speculation, however interesting, can have little practical value. The intimate connection between the rates charged and the quantity of traffic is so thoroughly understood at the present time as to require little or no comment. That an increase in traffic from 395,000 to 4,570,377 tons carried, and from 9,000,000 to 496,000,000 ton miles, could not have taken place without a substantial reduction in charges, is as evident as that such an increase in quantity of traffic itself makes the required reduction in charges practicable.

The New York, Lake Erie and Western road presents a curious contrast to the Fitchburg Railroad in that, while the average distance freight is transported on the latter has increased to nearly four times that of 1860, the former carried traffic an average distance of only 153 miles in 1892 against 222 miles in 1852. Thus, whatever may be said in the case of the Fitchburg Railroad as to the apparent reduction be-

ing largely the result of the present preponderance of long-distance traffic, which is naturally taken at lower rates, it must be said that the reduction made by the Erie from 1.95 cents per ton per mile in 1852 to 0.614 cent in 1892 is probably the result of more economical methods and the greater volume of traffic.

The student of this table will undoubtedly find it practicable to carry on similar comparisons almost indefinitely, and will find that each of the roads shown presents some interesting and valuable contribution to the subject of reductions in railway freight charges.

TABLE 130.—AVERAGE FREIGHT RATES PER TON PER MILE CHARGED BY IMPORTANT RAILWAYS NAMED DURING EACH YEAR FROM 1852, FOR WHICH SUCH DATA CAN BE OBTAINED.

[Average rates for the years 1888 to 1892 are from reports made by the railways to the Interstate Commerce Commission; those for previous years have been compiled from sources believed to be reliable, and, with few exceptions, have been verified by officials of the roads. Figures for 1892 are as reported and have not been verified by the statistician.]

Years.	Boston and Albany R. R.	Boston and Worcester R. R.*	Western R. R.*	Fitchburg R. R.	Central Vermont R. R.	New York and New England R. R.	New York, New Haven and Hartford R. R.†	Canadian Pacific Rwy.	Delaware, Lackawanna and Western R. R.	New York, Ontario and Western Rwy.	Lehigh Valley R. R.	New York Central R. R.‡	Lake Shore and Michigan Southern Rwy.§	Michigan Central R. R.	New York, Chicago and St. Louis R. R.	Cleveland, Cincinnati, Chicago and St. Louis Rwy.
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
1852.....				3.12												
1853.....				2.77												3.03
1854.....		3.36	2.86	3.29									3.51			2.66
1855.....		3.68	2.83	3.66								3.02	3.21			2.60
1856.....		4.14	3.13	4.24			3.80					2.95	2.96			2.55
1857.....		4.25	3.22	3.93			4.44					3.12	2.74			2.52
1858.....		3.64	2.93	3.78			4.18					2.59	2.38			2.26
1859.....		3.87	2.96	3.88			4.20					2.13	2.29			1.97
1860.....		3.58	2.54	4.10			4.04					2.05	2.16	2.18		2.12
1861.....		3.09	2.43	3.94			4.54					1.96	2.09	1.96		1.86
1862.....			2.60	3.75			4.50					2.22	2.10	1.91		1.98
1863.....			2.75	3.26			4.09					2.38	2.30	1.99		2.13
1864.....			3.01	3.51			4.21					2.70	2.83	2.26		2.64
1865.....		3.88	3.55	4.09			4.76					3.26	2.90	3.06		2.65
1866.....		3.63	3.16	4.33	2.85		5.52					2.87	2.48	2.60		2.37
1867.....		3.36	2.98	4.21	2.75		4.94					2.46	2.43	2.49		2.16
1868.....	2.81			4.08	2.53	6.40	5.12				2.13	2.59	2.34	2.45		1.94
1869.....	2.43			4.35	2.35	5.53	5.69				2.40	2.20	1.71	2.09		1.80
1870.....	2.19			4.31	1.86	4.46	6.23			5.87	2.27	1.88	1.50	1.98		1.52
1871.....	2.09				1.75	4.54	5.69			2.60	2.25	1.62	1.39	1.61		1.36
1872.....	2.02			3.92		4.27	3.74			2.50	2.01	1.59	1.37	1.56		1.34
1873.....	1.96			3.77	1.83	4.42	3.78			2.47	2.11	1.57	1.34	1.57		1.36
1874.....	1.82			4.32	1.83	4.80	3.70			2.28	2.13	1.46	1.18	1.29		1.19
1875.....	1.53			4.13		4.81	4.10			2.61	2.06	1.27	1.01	1.16		1.01
1876.....	1.28			2.51		4.72	3.54			2.73	1.72	1.05	.82	1.03		.81
1877.....	1.21			2.08	1.41	4.22	3.34			2.75	1.40	1.01	.86	.98		.89
1878.....	1.13			1.60	1.24	2.60	2.87			2.93	1.36	.93	.73	.85		.75
1879.....	1.10			1.30	1.08	2.86	2.36			2.81	1.06	.78	.64	.69		.70
1880.....	1.21			1.36	1.13	2.86	2.09		1.30	2.87	1.34	.87	.75	.84		.79
1881.....	1.04			1.26	1.03	2.20	1.63		1.28	2.40	1.27	.78	.62	.72		.67
1882.....	1.07			1.17	1.02	1.77	1.76		1.19	1.97	1.33	.73	.63	.77		.71
1883.....	1.19			1.19	1.09	1.38	1.89		1.06	1.93	1.33	.91	.73	.83	.60	.75
1884.....	1.09			1.09	1.11	1.41	1.96	1.45	.97	1.55	1.26	.83	.65	.65	.48	.63
1885.....	.94			1.06	1.00	1.81	1.96	1.20	.94	1.20	1.07	.68	.55	.56	.44	.58
1886.....	1.10			1.07	.91	1.67	2.00	1.10	.93	1.53	1.11	.76	.64	.69	.54	.68
1887.....	1.10			1.13	.91	1.63	1.95	1.01	.96	1.65	1.12	.78	.67	.69	.55	.70
1888.....	1.099			1.116	.914	1.192	1.752	1.007	1.070	1.395	1.069	.753	.673	.702	.577	.685
1889.....	1.030			1.015	.869	1.344	1.830	.949	.983	1.400	.942	.712	.632	.702	.506	.675
1890.....	1.105			.995	.777	1.220	1.810	.885	.948	1.271	.855	.730	.664	.701	.524	.674
1891.....	1.089			.991		1.140	1.793	.871	.896	1.033	.774	.740	.630	.723	.519	.683
1892.....	1.060			.925		1.155	1.756	.869	.903	.939		.700	.602	.687	.537	.710

* Consolidated during 1867, forming Boston and Albany R. R.

† Formed by consolidation, in 1872, of New York and New Haven and Hartford and New Haven Railroads. Figures prior to 1872 are for New York and New Haven only.

‡ Figures prior to 1870 do not include Hudson River R. R.

§ Figures prior to 1865 show Michigan Southern and Northern Indiana Rwy.

TABLE 130.—AVERAGE FREIGHT RATES PER TON PER MILE CHARGED BY IMPORTANT RAILWAYS NAMED, ETC.—Continued.

Years.	New York, Lake Erie and Western R. R.	New York, Pennsylvania and Ohio R. R.	Chicago and Erie R. R.	Pennsylvania R. R.	Pittsburg, Fort Wayne and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg R. R.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.	Baltimore and Ohio Southwestern R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton and Dayton R. R.	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
1852.....	1.95			5.42												
1853.....	2.50			3.76												
1854.....	2.58			3.29												
1855.....	2.42			2.75												
1856.....	2.48			2.71												
1857.....	2.46			2.41	2.27											
1858.....	2.32			2.18	1.90						3.25					
1859.....	1.62			2.03	1.65						2.75					
1860.....	1.81			1.96	1.67						2.38					
1861.....	1.77			1.93	1.71						2.20					
1862.....	1.89			2.04	1.90						2.35					
1863.....	2.09			2.19	2.01						2.81					3.34
1864.....	2.34			2.50	2.38											3.82
1865.....	2.76			2.72	2.44						3.43					4.11
1866.....	2.43			2.32	2.02											3.76
1867.....	2.04			2.08	1.95											3.94
1868.....	1.81			1.86	1.70											3.49
1869.....	1.54	1.26		1.66	1.62	1.81	5.60				2.24					3.10
1870.....	1.33	1.43		1.50	1.45						2.03					2.82
1871.....	1.43	1.34		1.35	1.43						2.14					2.54
1872.....	1.53	1.50		1.46	1.40	1.41	1.27				1.71	2.71	1.49			2.43
1873.....	1.45	1.45		1.44	1.40	1.40	1.18				1.81		1.41			2.50
1874.....	1.31	1.19		1.29	1.26	1.30	1.09			1.24	1.59		1.26			2.38
1875.....	1.21	.98		1.13	1.11	1.12	1.05			1.19	1.54	2.31	1.11			2.10
1876.....	1.10	.91		.95	.93	.88	.85			1.03	1.27	2.04				2.04
1877.....	.96	.91		1.01	1.09	.93	.90			.85	1.04	1.54	.83			2.08
1878.....	.97	.84		.93	.87	.79	.78				1.14	1.56				1.80
1879.....	.78	.70		.82	.76	.72	.70				.99	1.40				1.72
1880.....	.84	.83		.92	.92	.84	.80				1.09	1.31	.86		.62	1.76
1881.....	.81	.67		.86	.75	.72	.67				1.04	1.26	.93		.52	1.70
1882.....	.75			.87	.75	.73	.66				1.17	1.18	.95	.99	.58	1.48
1883.....	.79			.88	.79	.76	.72				1.00	1.15	.95	.95	.66	1.39
1884.....	.72		.52	.80	.67	.63	.60			.95	1.05	1.07	.86	.98	.57	1.29
1885.....	.66		.44	.70	.58	.53	.52			.95	.82	.98	.80	.83	.52	1.28
1886.....	.66		.42	.75	.69	.62	.59			.93	.70	.98	.82	.82	.62	1.17
1887.....	.69		.46	.73	.72	.66	.63			.84	.72	.91	.86	.80	.59	1.09
1888.....	.716		.511	.723	.66	.727	.646		.655	.84	.763	.869	.744	.855	.590	1.020
1889.....	.644		.525	.685	.69	.646	.594		.637	.757	.813	.865	.709	.853	.582	1.067
1890.....	.665		.541	.661	.69	.669	.626		.636	.791	.854	.873	.647	.917	.600	.995
1891.....	.658		.532	.656		.657	.627	.736	.643	.839	.937	.858	.733	.863	.569	1.003
1892.....	.614		.525	.647				.706	.651	.765	.911	.828	.705	.868	.593	1.026

TABLE 130.—AVERAGE FREIGHT RATES PER TON PER MILE CHARGED BY IMPORTANT RAILWAYS NAMED, ETC.—Continued.

Years.	Chicago and Northwestern Rwy.	Chicago, Burlington and Quincy R. R., east of Missouri River.	Chicago, Rock Island and Pacific Rwy.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central Lines.	Northern Pacific R. R.	Union Pacific Rwy.	Atchison, Topeka and Santa Fe R. R.	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio Rwy.	Chicago, Burlington and Quincy, west of Missouri River.
	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.	Ots.
1852.....																
1853.....																
1854.....																
1855.....																
1856.....																
1857.....																
1858.....												6.04				
1859.....					2.14							6.61				
1860.....					2.04							6.41				
1861.....					1.91							5.82				
1862.....					1.96							7.57				
1863.....		2.35	2.68		1.95							9.86				
1864.....		2.55	2.56		2.51							24.55				
1865.....		3.64	3.51		3.10											
1866.....		3.70	3.45		3.19							6.61	5.37			
1867.....			3.05		2.90							5.22	4.13			
1868.....	3.13	3.18	3.35		2.46							4.47	4.14			
1869.....		3.25	2.98		2.49							5.08	3.31	5.99		
1870.....	3.09	3.06	2.74		2.31							4.86	3.01	5.37	4.48	
1871.....	2.87	2.39	2.64		2.32							4.97	2.57	5.43	4.16	
1872.....	2.61	2.20	2.49		2.16			2.34		6.14		4.08	2.30	4.96	3.77	
1873.....	2.35	1.92	2.29		2.20			2.17	3.10	5.38		2.19	2.21	4.83	3.83	
1874.....	2.28	1.90	2.07	2.12	2.09			1.84	3.04	4.85		1.50	2.15	4.01	3.53	
1875.....	2.10	1.95	1.92	1.89	1.93	2.57		2.07	2.41	4.49	5.13	1.48	1.92	3.49	3.07	
1876.....	1.95		1.91	1.63	1.80	2.17		2.04	2.73	3.37	3.97	1.20	1.85	3.46	2.85	
1877.....	1.86		1.71	1.45	1.82	2.02		1.92	2.55	3.09	3.34	1.10	1.76	2.92	2.63	
1878.....	1.72		1.56	1.30	1.64	2.13		1.96	2.42		3.26	.98	1.71	2.87	2.29	
1879.....	1.56	1.11	1.43	1.05	1.52	1.93	2.59	1.70	2.51		3.12	.86	1.56	2.43	2.48	
1880.....	1.49	1.08	1.21	1.21	1.54	1.96	1.96		2.38		3.09	.87	1.60	2.16	2.20	3.15
1881.....	1.47	1.15	1.22	1.24	1.52	2.01	2.16	2.23	2.28	3.62	3.36	.89	1.50	2.07	2.06	3.20
1882.....	1.47	1.09	1.28	1.26	1.42	2.11	2.01	2.21	2.29	3.65	2.28	.79	1.35	1.95	2.15	3.04
1883.....	1.42	1.03	1.17	1.13	1.43	2.36	2.07	2.05	1.99	2.89	1.76	.72	1.32	2.06	2.28	2.71
1884.....	1.31	.97	1.10	1.01	1.37	2.11	1.90	1.80	1.93	2.90	1.64	.67	1.24	2.09	1.97	2.46
1885.....	1.19	.95	1.04	1.01	1.31	1.77	1.78	1.72	1.75	2.72	1.56	.55	1.16	1.95	1.70	2.24
1886.....	1.19	.94	1.07	.96	1.16	1.44	1.67	1.58	1.60	2.60	1.67	.54	1.10	1.93	1.51	2.04
1887.....	1.10	.87	1.01	.95	1.09	1.30	1.63	1.42	1.35	2.39	1.46	.54	1.02	1.92	1.32	1.81
1888.....	.983	.78	.964	.973	1.069		1.437	1.170	1.289	2.346	1.314	.54	1.049	1.710	1.018	1.42
1889.....	1.013	.88	.971	1.002	.839	.971	1.429	1.166	1.289	2.212	1.435	.538	.998	1.476	.958	1.60
1890.....	.977	.79	.995	.898	.942	.936	1.430	1.138	1.129	2.054	1.249	.561	.972	1.310	.924	1.49
1891.....	1.028	.88	1.039	.980	.934	.988	1.382	1.131	1.175	2.006	1.279	.525	.968	1.416	.867	1.41
1892.....	1.013	.987	1.055	.973	.908	.868	1.402	1.081	1.130	1.863	1.226		.948	1.355	.845	

FREIGHT TONNAGE AND EARNINGS OF THE PRINCIPAL RAILWAYS IN THE UNITED STATES.

For the purpose of showing the increase which has taken place in the freight traffic of the United States data have been collected which are shown in the following tables.

The first table shows the number of tons of freight carried one mile by the more important railways of the United States, which, for convenience of expression, has been reduced to millions of tons. The growth of the business of each line is shown from as early a date as the data were available. The carriers selected are the important roads in different sections of the country, and represent about 60 per cent of the total railway mileage of the United States.

The second table shows the aggregate tonnage carried by various important roads in different sections of the country. The data of this table is shown, for a majority of the roads, for a period of thirty years.

The third table shows for the same carriers the gross freight earnings for as many years as such data could be obtained. The data included in these tables for years prior to 1888 have been collected from what are believed to be the most reliable sources available, while for the years from 1888 to 1892, inclusive, the figures shown are those given in the reports of the several railways to the Interstate Commerce Commission.

TABLE 131.—NUMBER OF MILLIONS OF TONS OF FREIGHT CARRIED ONE MILE BY THE MORE IMPORTANT RAILWAYS OF THE UNITED STATES DURING EACH YEAR FROM 1852, FOR WHICH SUCH DATA CAN BE OBTAINED.

[Compiled from reports to Interstate Commerce Commission and various numbers of Poor's Manual.]

Years.	Boston and Albany R. R.	Fitchburg R. R.	Central Vermont R. R.	New York and New England R. R.	New York, New Haven and Hartford R. R.	Canadian Pacific Rwy.	Delaware, Lackawanna and Western Rwy.	New York, Ontario and Western R. R.	Philadelphia and Reading R. R.	Lehigh Valley R. R.	New York Central and Hudson River R. R.	Lake Shore and Michigan Southern Rwy.	Michigan Central R. R.	New York, Chicago and St. Louis Rwy.	Cleveland, Cincinnati, Chicago and St. Louis Rwy.	New York, Lake Erie and Western R. R.
1852.....																97
1853.....																102
1854.....											99					101
1855.....											115					151
1856.....											166					183
1857.....											166					165
1858.....											161					166
1859.....	53										187					147
1860.....	56	9									239					214
1861.....	61	8									280					251
1862.....	67	9			3						358		82			351
1863.....	69	13			4					2	387		100			404
1864.....	76	14			6					2	387		92			422
1865.....	70	14			6					2	319		73			389
1866.....	96	14			7					3	389		85			478
1867.....	107	14		3	7					3	435		92			550
1868.....	121	16	47	9	21					4	455		101		95	596
1869.....	159	17	54	6	25					4	589		132		116	818
1870.....	149	16	66	6	29			3		5	769	574	133		149	899
1871.....	227			8	29			8		4	888	734	191		211	897
1872.....	290	20	*164	9	39			24		6	1,021	925	217		256	951
1873.....	318	21		9	39			39			1,247	1,054	246		274	1,033
1874.....	291	22	*244	9	36		212	34	694		1,392	999	313		264	1,047
1875.....	282	22		9	35		229	15	605		1,404	943	318		262	1,017
1876.....	302	42		9	37		175	13	606		1,674	1,134	396		312	1,040
1877.....	314	53	128	11	40		169	14	779		1,620	1,080	474		276	1,115
1878.....	330	68	123	19	46		188	13	666		2,043	1,340	{ 252 548		346	1,225
1879.....	325	93	148	37	63		308	13	889		2,296	1,733	\$721		401	1,569
1880.....	375	109	176	44	78		317	14	861		2,525	1,851	736		420	1,721
1881.....	417	117	170	65	117		676	20	957		2,647	2,022	790		481	1,984
1882.....	374	129	177	104	117		712	31	1,032		2,395	1,893	703	12	447	1,954
1883.....	374	136		153	131		1,080	39	1,499		2,201	1,690	1,141	334	408	2,307
1884.....	374	144		139	126		1,149	69	1,695		1,970	1,411	1,179	604	398	2,499
1885.....	398	162		108	124	407	1,163	94	1,902		2,138	1,603	1,232	668	429	2,382
1886.....	390	195		135	139	555	1,315	61	2,098		2,414	1,592	1,157	659	424	2,882
1887.....	406	239	269	153	150	688	1,476	55	1,380		2,705	1,844	1,341	811	453	3,022
1888.....	405	283	289	188	168	757	1,551	87	1,347	712	2,688	1,840	1,333	825	209	2,990
1889.....	423	346	302	237	225	853	1,526	92	1,366	1,220	2,781	1,782	1,214	849	223	3,109
1890.....	402	390	390	282	249	1,057	1,612	115	1,562	1,517	2,956	2,087	1,328	978	1,087	3,515
1891.....	401	437		322	255	1,327	1,762	195	1,631	1,804	2,890	2,061	1,298	1,067	1,222	3,496
1892.....	447	496		311		1,524	1,817	264			3,830	2,430	1,548	1,085	1,286	4,048

*Two years ending July 1, 1872 and 1874. † Year ending May 31. ‡ Eight months, June 1 to December 31.
§ Year ending December 31. || Figures as reported, not verified in this office.

TABLE 131.—NUMBER OF MILLIONS OF TONS OF FREIGHT CARRIED ONE MILE BY THE MORE IMPORTANT RAILWAYS OF THE UNITED STATES, ETC.—Continued.

Years.	New York, Pennsylvania and Ohio R. R.	Chicago and Erie R. R.	Pennsylvania R. R.	Pittsburg, Fort Wayne and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg Rwy.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.	Baltimore and Ohio Southwestern R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton and Dayton R. R.	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.	Chicago and Northwestern Rwy.
1852																
1853																
1854																
1855			102													
1856			120													
1857			140	29												
1858			162	35												
1859			180	58												
1860			214	78												
1861			280	111												
1862			376	126												
1863			394	167												
1864			421	175												
1865			420	194											41	
1866			513	233											44	
1867			566	229											96	
1868			676	307											120	
1869	320		753	310	94	41				58					158	
1870	232		826	336						70					181	365
1871	261	1,012	391							88					174	268
1872	228	1,190	488	197						108	22	289			187	288
1873	311	1,385	480	206	280					143	21	307			258	366
1874	319	1,373	465	204	247				112	147	22	278			259	461
1875	283	1,479	491	208	240				101	145	22	214			273	455
1876	293	1,630	563	250	275				108	173					265	503
1877	329	2,180	440	237	254				111		93	381			272	485
1878	331	2,432	637	288	305					167		502			322	624
1879	436	3,061	803	367	403					209			39		402	682
1880	474	3,293	806	385	441					247		1,106		160	505	866
1881	610	3,701	1,044	401	542					283	139	1,150		229	697	981
1882	695	3,977	992	415	548					179		1,248		244	945	1,192
1883		4,127	945	428	401					261		1,264	120	301	1,177	1,184
1884		196 4,192	908	432	485					225	166	1,374	116	376	1,247	1,350
1885		209 4,501	954	523	613					253	169	1,184		373	1,338	1,417
1886		212 4,635	903	561	588					319	170	1,102	164	354	1,487	1,467
1887		320 5,261	1,107	657	684	2,048	176			334		1,075	202	416	1,629	1,755
1888		339 5,413	1,005	744	642	2,192				297	237	610	184	401	1,660	1,954
1889		299 5,834	1,087	767	657	2,248	150			273	235	635	189	386	1,621	1,778
1890		371 6,908	1,226	879	782	2,645	83			285	250	1,430	187	477	1,843	2,034
1891		310 6,870	1,122	233	208	1,151	2,562	164		249	270	1,209	217	456	1,896	1,945
1892		420 7,362				1,746	2,723	220		271	323	1,391	246	464	2,266	2,302

* Nine months, ending December 31.

TABLE 131.—NUMBER OF MILLIONS OF TONS OF FREIGHT CARRIED ONE MILE BY THE MORE IMPORTANT RAILWAYS OF THE UNITED STATES, ETC.—Continued.

Years.	Chicago, Burlington and Quincy.	Chicago, Rock Island and Pacific.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central R. R.	Northern Pacific R. R.	Union Pacific Rwy.	Atchison, Topeka and Santa Fe R. R.	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio R. R.
1852.....														
1853.....														
1854.....														
1855.....														
1856.....														
1857.....														
1858.....														
1859.....														
1860.....														
1861.....														
1862.....														
1863.....	108	39												
1864.....	117	57												
1865.....	108	63		136										
1866.....	114	59		135									4	
1867.....	138	80		171							5		6	
1868.....	132	88		226							7	29	6	
1869.....	146	120		253								41	6	
1870.....	147	131		265			72				7	72	8	36
1871.....	207	152		262			134				8		9	47
1872.....	241	169		272			178		3		9		10	57
1873.....	418	219		275			223	25	4		32	142	13	54
1874.....	446	250	162	274	15		262	27	4	7	60	147	14	52
1875.....	436	288	169	285	19		269	46	5	14	66	136	16	46
1876.....	477	268	218	264	22		292	62		28	98		17	53
1877.....	655	337	212	249	23		335	73	14	43	117	202	22	61
1878.....	952	370	248	306	23		366	133		51	153	225	24	71
1879.....	1,139	511	402	335	31		436			51	168	237	33	58
1880.....	1,248	686	481	381	42	81		267		66	*230	320	41	80
1881.....	1,275	712	447	386	48	96	783	396	120	102	298	493	70	87
1882.....	1,222	788	475	418		193	733	461	121	208	345	597	119	75
1883.....	1,552	702	549	605	39	244	746	521	193	259	426	664	126	75
1884.....	1,580	735	603	578	43	400	922	635	152	245	406	687	120	87
1885.....	1,813	781	529	623	56	391	1,110	608	169	125	480	751		90
1886.....	1,852	720	561	720	70	482	1,261	687	193	257	613	802		98
1887.....	2,126	794	642	831	105	537	1,490	909	242	287	653	954		133
1888.....	1,581	931	582	771	152	705	1,171	817	239	333	655	1,104	315	192
1889.....	1,727	903	494	1,061	123	875	1,102	755	48	305	612	773	423	218
1890.....	1,998	1,235	595	1,063	367	1,096	1,281	1,330	280	406	1,006	884	555	256
1891.....	1,646	1,082	477	1,302	379	1,258	1,209	1,456	309	380	1,136	902	473	306
1892.....	†2,173	1,188	562	1,411	459	†1,228	1,318	1,691	323	387		†1,051	468	302

* For fifteen months, termination of year being changed from September 30 to December 31.

† Figures as reported, not verified in this office.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR FROM 1852, FOR WHICH SUCH DATA CAN BE PROCURED.

Year.	Freight (tons carried).							
	Boston and Albany R. R.	Fitchburg R. R.	Central Vermont R. R.	New York, and New England R. R.	New York, New Haven and Hartford R.R.	Canadian Pacific Rwy.	Delaware, Lackawanna and Western R. R.	New York, Ontario and Western R. R.
1859.....	775, 695	.....	.....	.....	.....	.....	.....	.....
1860.....	858, 546	395, 003	.....	.....	.....	.....	.....	.....
1861.....	853, 353	325, 500	.....	.....	.....	.....	.....	.....
1862.....	969, 998	345, 254	.....	.....	245, 712	.....	1, 316, 892	.....
1863.....	1, 077, 658	419, 314	.....	.....	307, 346	.....	1, 510, 495	.....
1864.....	1, 174, 892	466, 530	.....	.....	375, 333	.....	1, 621, 360	.....
1865.....	1, 121, 158	486, 015	.....	.....	406, 622	.....	1, 200, 097	.....
1866.....	1, 433, 883	512, 874	.....	.....	472, 663	.....	1, 920, 874	.....
1867.....	1, 532, 005	511, 488	.....	102, 314	482, 005	.....	2, 140, 134	.....
1868.....	1, 319, 059	559, 368	477, 608	370, 191	489, 148	.....	2, 128, 512	.....
1869.....	1, 613, 940	670, 439	650, 146	233, 271	588, 271	.....	1, 993, 946	.....
1870.....	¹ 1, 531, 149	634, 615	675, 884	214, 191	695, 579	.....	3, 398, 004	50, 006
1871.....	2, 209, 332	.....	.....	294, 177	755, 740	.....	2, 363, 568	137, 151
1872.....	2, 732, 907	740, 123	² 1, 833, 660	345, 662	892, 579	.....	3, 347, 671	370, 418
1873.....	2, 884, 520	777, 268	.....	363, 734	895, 985	.....	4, 448, 769	490, 706
1874.....	2, 668, 403	965, 796	³ 2, 766, 154	362, 513	815, 379	.....	3, 653, 763	455, 372
1875.....	2, 439, 472	726, 766	.....	344, 508	827, 832	.....	3, 898, 344	235, 042
1876.....	2, 541, 274	887, 859	.....	330, 667	836, 019	.....	2, 923, 089	228, 103
1877.....	2, 601, 657	955, 771	1, 069, 822	350, 005	886, 476	.....	2, 922, 803	222, 507
1878.....	2, 642, 555	1, 115, 771	1, 006, 162	435, 367	898, 799	.....	3, 193, 531	212, 541
1879.....	2, 738, 096	1, 313, 289	1, 204, 637	871, 187	1, 209, 630	.....	5, 283, 442	216, 100
1880.....	3, 310, 539	1, 546, 950	1, 811, 228	968, 549	1, 348, 678	.....	5, 269, 359	255, 410
1881.....	3, 593, 923	1, 776, 960	1, 465, 712	1, 176, 795	1, 655, 513	.....	7, 115, 065	348, 513
1882.....	3, 415, 329	1, 822, 262	1, 661, 887	1, 572, 374	1, 908, 322	.....	7, 452, 757	469, 526
1883.....	3, 411, 324	2, 031, 122	1, 612, 352	1, 801, 360	2, 160, 023	.....	8, 159, 299	562, 836
1884.....	3, 325, 517	2, 112, 155	1, 544, 871	1, 786, 531	2, 181, 250	.....	8, 411, 216	1, 004, 248
1885.....	3, 446, 413	2, 158, 283	1, 600, 266	1, 715, 661	2, 148, 463	1, 996, 355	8, 203, 714	1, 470, 808
1886.....	3, 506, 476	2, 509, 131	1, 802, 966	2, 099, 339	2, 376, 195	2, 046, 195	9, 318, 773	807, 441
1887.....	3, 674, 589	2, 919, 629	2, 659, 031	2, 225, 141	2, 602, 157	2, 144, 327	10, 558, 055	661, 825
1888.....	3, 719, 992	3, 117, 152	2, 586, 334	2, 526, 937	2, 336, 224	2, 321, 957	11, 070, 369	1, 277, 519
1889.....	3, 859, 516	3, 448, 160	2, 715, 251	2, 705, 332	3, 246, 833	2, 636, 121	10, 793, 278	1, 353, 885
1890.....	3, 883, 115	3, 971, 318	3, 273, 143	2, 973, 813	3, 563, 873	3, 095, 784	10, 936, 685	1, 473, 788
1891.....	3, 913, 873	4, 215, 024	.....	3, 299, 876	3, 802, 012	3, 675, 113	12, 199, 053	1, 737, 059
1892.....	4, 256, 575	4, 570, 377	.....	3, 272, 110	.....	4, 058, 575	12, 910, 744	2, 085, 769

¹ Ten months only.² Two years ending July 1, 1872.³ Two years ending July 1, 1874.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).							
	Philadel- phia and Reading R. R.	Lehigh Valley R. R.	New York Central and Hudson River R. R.	Lake Shore and Michi- gan South- ern Rwy.	Michigan Central R. R.	New York, Chicago and Saint Louis R. R.	Cleve- land, Cin- cinnati, Chicago and Saint Louis Rwy.	New York, Lake Erie and West- ern R. R.
1852.....								436,460
1853.....								631,039
1854.....			549,805					743,250
1855.....			670,073					842,055
1856.....			932,844					983,221
1857.....			1,075,589					978,067
1858.....			925,604					816,964
1859.....			1,093,284					869,072
1860.....			1,366,035					1,139,554
1861.....			1,537,400					1,253,419
1862.....			1,905,173		463,812			1,632,955
1863.....			2,106,571		564,827			1,815,096
1864.....			2,158,972		542,410			2,170,798
1865.....			1,767,149		485,275			2,234,350
1866.....			2,099,504		533,451			3,242,972
1867.....			2,249,363		578,177			3,484,546
1868.....			2,562,862		638,586		628,356	3,908,209
1869.....			3,190,840		802,835		825,465	4,312,209
1870.....			4,122,000	2,978,725	823,770		935,840	4,852,505
1871.....			4,532,056	3,784,525	1,105,875		1,777,657	4,844,208
1872.....			4,393,965	4,443,092	1,708,964		1,444,354	5,564,274
1873.....	10,663,333	6,901,905	5,522,724	5,176,661	1,999,671		1,680,588	6,312,702
1874.....	10,209,500	6,606,555	6,114,678	5,221,267	2,186,786		1,531,952	6,364,276
1875.....	8,886,317	5,402,271	6,001,954	5,022,490	2,375,496		1,611,174	6,239,943
1876.....	8,759,908	6,148,583	6,803,680	5,635,167	2,686,248		1,745,367	5,972,818
1877.....	10,963,604	7,424,969	6,351,356	5,513,398	14,764,611		1,624,200	6,182,456
1878.....	9,376,075	6,127,093	7,695,413	6,098,445	3,564,731		1,949,484	6,150,468
1879.....	13,303,265	7,616,523	9,015,753	7,541,294	3,513,819		2,299,711	8,212,641
1880.....	13,184,982	8,807,246	10,533,038	8,350,336	3,797,137		2,441,643	8,715,892
1881.....	14,384,710	10,761,795	11,591,379	9,164,508	4,196,896		2,880,923	11,086,823
1882.....	15,212,320	10,693,454	11,330,393	9,195,538	3,913,869	45,758	2,755,867	11,895,238
1883.....	19,118,517	10,434,508	10,892,440	8,478,605	5,197,278	981,830	2,527,993	13,610,623
1884.....	19,781,705	9,336,906	10,212,418	7,365,688	5,141,597	1,762,778	2,347,792	11,071,938
1885.....	20,208,932	10,179,171	10,802,957	8,023,093	5,236,276	1,984,364	2,513,780	10,253,498
1886.....	22,669,394	11,295,044	12,718,101	8,305,597	5,345,570	2,056,148	2,644,021	12,806,918
1887.....	18,195,990	11,247,513	14,626,954	9,326,852	6,014,233	2,468,796	2,808,149	13,949,260
1888.....	17,747,615	9,670,987	14,939,255	9,262,397	6,076,936	2,582,308	1,705,293	20,629,840
1889.....	18,438,707	14,371,247	14,988,281	9,304,575	6,194,473	2,732,102	1,778,372	21,287,751
1890.....	19,401,123	13,550,147	16,108,441	10,975,241	6,798,467	3,084,590	6,591,610	23,926,198
1891.....	21,084,490	14,394,933	16,621,567	11,259,811	6,947,945	3,304,425	7,801,377	24,304,597
1892.....			20,721,752	13,332,519	7,731,061	3,445,947	8,524,986	² 26,531,799

¹ Twenty months.² Figures as reported, not verified in this office.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).							
	New York, Pennsylvania and Ohio R. R. ¹	Chicago and Erie R. R.	Pennsylvania R. R. ²	Pittsburg, Fort Wayne, and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg Rwy.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.
1857.....			826, 518	304, 769				
1858.....			1, 046, 899	285, 663				
1859.....			1, 170, 240	362, 606				
1860.....			1, 346, 525	465, 204				
1861.....			1, 482, 087	526, 379				
1862.....			2, 058, 548	643, 107				
1863.....			2, 265, 413	805, 525				
1864.....			2, 585, 379	858, 928				
1865.....			2, 555, 709	832, 615				
1866.....			3, 186, 356	1, 025, 978				
1867.....			3, 709, 224	1, 154, 351				
1868.....			4, 427, 884	1, 509, 052				
1869.....			4, 991, 995	1, 665, 190		516, 815		
1870.....			5, 427, 401	1, 740, 585				
1871.....			6, 575, 843	2, 047, 114				
1872.....			7, 844, 778	2, 407, 018		1, 390, 597		
1873.....			9, 211, 234	2, 292, 644		1, 473, 623		
1874.....	2, 709, 134		16, 420, 321	2, 309, 128	1, 471, 207	1, 390, 483		
1875.....	2, 429, 421		15, 772, 722	2, 496, 148	1, 536, 261	1, 370, 069		
1876.....	2, 507, 195		16, 333, 353	2, 604, 767	1, 808, 761	1, 617, 133		
1877.....	2, 761, 493		16, 382, 268	2, 690, 735	1, 722, 386	1, 521, 141		
1878.....	2, 653, 839		17, 600, 447	3, 026, 250	2, 142, 155	1, 791, 981		
1879.....	3, 259, 843		22, 867, 162	3, 679, 382	2, 726, 847	2, 310, 053		
1880.....	4, 125, 979		26, 051, 091	3, 865, 675	3, 099, 994	2, 484, 321		
1881.....			32, 606, 264	4, 753, 220	3, 297, 841	2, 967, 149		
1882.....			35, 840, 060	4, 837, 236	3, 125, 645	3, 001, 619		
1883.....			37, 379, 546	5, 076, 311	3, 466, 544	2, 135, 148		
1884.....		831, 761	38, 106, 544	4, 696, 583	3, 630, 919	2, 517, 062		
1885.....		900, 209	40, 880, 100	4, 711, 888	4, 066, 386	3, 031, 595		
1886.....		955, 334	44, 121, 327	5, 413, 597	4, 864, 889	3, 075, 385		
1887.....		1, 274, 204	51, 215, 785	6, 315, 075	5, 560, 539	3, 546, 260		
1888.....		1, 582, 324	51, 782, 247	6, 210, 816	7, 717, 282	3, 374, 433		11, 438, 320
1889.....		1, 445, 143	54, 686, 113	7, 113, 671	7, 909, 760	3, 997, 634		12, 236, 223
1890.....		1, 792, 782	65, 173, 118	7, 942, 888	8, 936, 566	4, 772, 290		14, 245, 975
1891.....		1, 491, 301	50, 013, 674		³ 2, 375, 841	³ 1, 254, 398	⁴ 10, 231, 022	15, 097, 632
1892.....		1, 992, 932	54, 769, 382				13, 725, 857	15, 738, 858

¹ Years subsequent to 1880 included in New York, Lake Erie and Western R. R.² Figures for 1873 and previous years cover Pennsylvania R. R. division only.³ Three months.⁴ Nine months.

TABLE 132.--AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).							
	Baltimore and Ohio South-western R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton, and Dayton R. R. ¹	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.	Chicago and North-western Rwy.
1861.....			276, 193					
1862.....			249, 540					
1865.....								956, 484
1866.....			412, 847					1, 370, 516
1867.....								1, 726, 919
1868.....			497, 466				1, 134, 565	1, 982, 429
1869.....			508, 692				1, 344, 358	2, 211, 826
1870.....			395, 432				1, 522, 753	2, 222, 978
1871.....			486, 030				1, 463, 156	2, 298, 170
1872.....			551, 936	1, 349, 052			1, 687, 826	2, 510, 016
1873.....			564, 542	1, 442, 963			1, 791, 504	2, 958, 390
1874.....			616, 830	1, 277, 356			1, 735, 535	3, 591, 090
1875.....			617, 860	1, 092, 219			1, 832, 527	3, 153, 315
1876.....			711, 230				1, 765, 801	3, 471, 927
1877.....			744, 723	1, 403, 866			1, 687, 057	3, 413, 398
1878.....			759, 569	1, 952, 003			1, 955, 699	3, 911, 261
1879.....			815, 963		415, 998	135, 644	2, 559, 734	4, 265, 937
1880.....			823, 272	4, 533, 187		702, 153	3, 260, 553	5, 574, 635
1881.....			2, 187, 632	5, 393, 917		878, 325	4, 276, 088	6, 662, 112
1882.....				5, 911, 012	764, 661	978, 812	5, 127, 767	8, 190, 893
1883.....				5, 859, 566	830, 318	1, 131, 251	5, 661, 667	7, 874, 665
1884.....			2, 681, 861	6, 358, 761	902, 246	1, 370, 530	6, 023, 016	8, 453, 994
1885.....			2, 753, 999	5, 558, 571		1, 380, 958	6, 482, 869	8, 235, 127
1886.....			2, 827, 048	5, 486, 067	1, 179, 736	1, 375, 851	7, 085, 072	8, 494, 239
1887.....				3, 337, 678	1, 462, 205	1, 584, 720	7, 573, 795	9, 737, 312
1888.....		1, 630, 477	3, 724, 865	3, 358, 988	1, 259, 491	1, 540, 659	7, 675, 934	11, 059, 616
1889.....	1, 375, 570	1, 652, 548	3, 556, 831	3, 580, 366	1, 250, 190	1, 562, 480	7, 769, 875	11, 084, 841
1890.....	757, 747	1, 787, 058	3, 803, 251	6, 832, 358	1, 251, 978	1, 896, 325	9, 292, 992	13, 450, 324
1891.....	1, 730, 357	1, 866, 836	2, 786, 592	6, 256, 064	1, 354, 174	1, 860, 752	10, 397, 035	13, 547, 496
1892.....	1, 966, 471	2, 096, 789	3, 611, 175	6, 928, 051	1, 594, 801	1, 874, 615	11, 568, 930	15, 768, 548

¹ Figures for years prior to 1880 show Cincinnati, Hamilton and Dayton R. R. main line only.

Year.	Freight (tons carried).							
	Chicago, Burlington and Quincy R. R.	Chicago, Rock Island and Pacific Rwy.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central R. R.	Northern Pacific R. R.	Union Pacific Rwy.	Atchison, Topeka and Santa Fe R. R.
1862.....				806, 685				
1863.....	777, 736	879, 879		952, 814				
1864.....	809, 674	441, 570	386, 197	1, 022, 024				
1865.....	737, 511	472, 557	511, 012	1, 034, 946				
1866.....	821, 883	459, 986	636, 360	1, 153, 175				
1867.....	978, 583	598, 914	750, 657	1, 300, 835				
1868.....	937, 489	654, 435	915, 682	1, 439, 675				
1869.....	1, 029, 746	846, 787	1, 076, 878	1, 601, 972				
1870.....	1, 052, 754	856, 668	1, 261, 032	1, 623, 944				98, 917
1871.....	1, 382, 515	914, 345	1, 501, 496	1, 831, 944				87, 571
1872.....	1, 031, 314	1, 014, 348	1, 601, 799	2, 039, 321			378, 650	
1873.....	2, 221, 744	1, 286, 966	1, 642, 443	2, 057, 360	40, 652		487, 484	156, 033
1874.....	2, 420, 628	1, 399, 384	1, 421, 158	2, 069, 935	189, 492	39, 111	482, 806	186, 312
1875.....	2, 396, 933	1, 717, 727	1, 545, 842	2, 016, 424	202, 383	21, 540	501, 410	252, 383
1876.....	2, 892, 614	1, 640, 000	1, 818, 235	1, 899, 627	215, 463	36, 759	629, 947	325, 629
1877.....	3, 249, 625	1, 651, 409	1, 560, 188	1, 803, 044	221, 835	47, 985	716, 112	372, 084
1878.....	3, 975, 010	1, 768, 118	1, 967, 306	2, 067, 832	244, 976	104, 941	844, 019	611, 086
1879.....	4, 686, 520	2, 236, 270	2, 634, 177	2, 324, 485	325, 078	145, 268	992, 886	802, 121
1880.....	6, 636, 186	2, 966, 764	3, 071, 788	2, 703, 582	405, 785	365, 743		953, 701
1881.....	6, 710, 750	3, 376, 260	3, 275, 004	2, 875, 833	469, 198	449, 087	2, 065, 030	1, 166, 483
1882.....	6, 346, 259	3, 754, 531	3, 522, 840	2, 909, 578		787, 471	2, 101, 635	1, 475, 149
1883.....	7, 645, 701	3, 454, 888	3, 488, 496	3, 538, 562	426, 448	1, 093, 336	2, 583, 287	1, 754, 385
1884.....	7, 525, 997	3, 618, 142	3, 598, 284	3, 454, 085	444, 849	1, 442, 800	2, 663, 016	2, 725, 191
1885.....	8, 431, 808	3, 980, 502	3, 631, 108	3, 587, 270		1, 256, 880	3, 183, 770	2, 602, 056
1886.....	8, 534, 708	3, 873, 605	3, 651, 100	4, 051, 823	689, 378	1, 547, 626	3, 561, 572	2, 938, 364
1887.....	9, 752, 325	4, 180, 109	4, 123, 120	4, 910, 248	1, 172, 549	2, 128, 166	3, 894, 250	3, 839, 578
1888.....	8, 667, 567	4, 381, 257	3, 962, 264	4, 899, 030	1, 039, 314	2, 597, 897	4, 372, 580	3, 464, 051
1889.....	9, 472, 578	4, 656, 261	3, 485, 536	5, 422, 967	1, 380, 632	2, 877, 978	4, 389, 291	2, 933, 104
1890.....	11, 201, 874	5, 540, 795	3, 675, 179	6, 063, 586	2, 623, 732	3, 569, 969	5, 057, 825	5, 158, 689
1891.....	10, 272, 274	5, 198, 365	3, 271, 387	6, 948, 867	2, 653, 764	4, 388, 819	4, 529, 887	5, 754, 545
1892.....	12, 418, 634	6, 033, 943	3, 548, 052	7, 519, 192	2, 889, 115	2, 936, 977	4, 787, 388	6, 224, 294

¹ 20 months.² Figures as reported, not verified in this office.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).					
	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio Rwy.
1866.....					68,121	
1867.....			63,537	222,937	81,638	
1868.....			82,544	243,918	88,679	
1869.....				317,208	99,323	
1870.....			86,585	438,413	120,959	258,409
1871.....			99,596	535,711	161,122	333,659
1872.....	46,212		115,473	716,753	174,919	437,307
1873.....	59,229		248,226	947,468	225,446	347,488
1874.....	55,436	88,343	306,465	1,348,214	197,920	343,488
1875.....	57,969	138,596	359,569	1,212,160	221,017	305,243
1876.....	78,794	254,288	415,452		227,650	223,106
1877.....	132,838	355,789	471,660	1,995,044	241,081	251,427
1878.....		388,967	588,066	2,644,007	235,962	275,017
1879.....		379,125	686,526	2,282,180	308,060	246,898
1880.....	651,833	525,093	941,123	2,139,153	372,226	333,553
1881.....	1,136,311	715,204	1,435,597	3,286,000	710,706	364,431
1882.....	1,151,330	1,049,262	1,367,469	6,533,317	1,210,267	345,755
1883.....	1,416,426	946,219	1,748,676	7,302,145	1,311,624	357,493
1884.....	1,093,841	1,056,726	1,579,106	7,969,776	1,319,585	408,889
1885.....	1,207,897	952,017	1,849,938	8,365,521	1,451,646	429,141
1886.....	1,352,252	1,099,304	2,174,523	8,942,102	1,500,164	484,549
1887.....	1,694,207	1,152,858	2,414,303	11,257,812	1,671,687	777,298
1888.....	1,662,118	1,192,727	2,485,322	13,675,170	1,764,283	1,205,279
1889.....	353,469	1,263,895	2,663,350	9,212,322	2,675,690	1,051,335
1890.....	1,833,874	1,617,201	3,760,577	10,306,013	3,617,723	1,142,708
1891.....	2,093,660	1,554,857	4,166,102	10,367,379	2,766,530	1,230,029
1892.....	1,904,255	1,545,328		112,149,938	5,359,408	1,193,641

¹ Figures as reported, not verified in this office.

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC., OF VARIOUS IMPORTANT RAILWAYS, DURING EACH YEAR FROM 1852 FOR WHICH SUCH DATA CAN BE PROCURED.

Year.	Freight (gross earnings).							
	Boston and Albany R. R.	Fitchburg R. R.	Central Vermont R. R.	New York and New England R. R.	New York, New Haven and Hartford R. R.	Canadian Pacific Rwy.	Delaware, Lackawanna and Western R. R.	New York Ontario and Western R. R.
1862.....					\$125,092		\$1,417,196	
1863.....					166,614		1,614,813	
1864.....					214,354		1,788,058	
1865.....					263,904		1,485,832	
1866.....					340,017		2,466,797	
1867.....					333,381		2,476,010	
1868.....	\$3,410,893	\$639,592	\$1,209,857	\$557,761	953,965		3,414,644	
1869.....	3,861,052	736,796	1,319,934	332,926	1,138,311		2,201,115	
1870.....	3,265,481	² 584,360	1,439,288	² 264,823	³ 1,475,956		⁴ 3,826,002	\$166,470
1871.....	4,747,180	755,837	1,529,111	364,488	² 1,176,772		3,095,573	216,989
1872.....	5,846,768	769,936			1,445,952		4,266,081	600,826
1873.....	6,221,183	788,554		404,473	1,468,578		5,507,388	971,275
1874.....	5,283,599	932,030	¹ 4,471,489	449,108	1,331,527		4,629,862	781,911
1875.....	4,328,131	909,629		447,261	1,431,498		5,422,850	393,355
1876.....	3,886,132	1,045,780		447,385	1,317,646		3,418,245	354,207
1877.....	3,790,781	1,106,161	1,858,064	477,400	1,326,707		2,954,636	371,991
1878.....	3,721,436	1,091,516	1,531,486	505,809	1,309,778		3,128,974	371,850
1879.....	3,588,839	1,205,954	1,599,364	1,058,722	1,492,261		4,695,694	353,530
1880.....	4,530,913	1,496,459	1,993,378	1,250,527	1,634,092		8,871,475	377,926
1881.....	4,328,906	1,658,139	1,752,740	1,420,758	1,903,703	\$231,378	10,426,756	469,156
1882.....	3,984,133	1,521,576	1,806,826	1,837,890	2,065,856	890,385	9,634,910	605,479
1883.....	4,472,180	1,835,422	1,885,526	2,114,524	2,507,623	3,112,932	12,638,812	754,279
1884.....	4,090,302	1,775,248	1,664,753	1,955,686	2,440,919	3,410,365	12,382,015	1,067,808
1885.....	3,765,929	1,712,162	1,643,503	1,850,266	2,423,594	4,881,865	12,149,082	1,125,063
1886.....	4,299,083	2,078,446	1,663,380	2,262,479	2,795,241	6,112,379	14,647,355	938,285
1887.....	4,493,588	2,707,544	2,354,355	2,485,913	2,928,001	6,924,130	18,317,758	907,247
1888.....	4,458,688	3,164,311	2,644,267	3,033,397	2,953,645	7,619,758	16,608,146	1,218,326
1889.....	4,350,172	3,508,281	2,621,988	3,189,904	4,109,128	8,095,114	15,004,531	1,291,097
1890.....	4,446,586	3,880,252	3,032,887	3,445,385	4,489,611	9,354,480	15,293,486	1,455,994
1891.....	4,369,007	4,330,784		3,666,545	4,557,071	11,643,641	15,790,589	2,013,685
1892.....	4,722,856	4,591,008		3,601,462	4,900,936	13,249,454	16,418,334	2,456,048

¹ 2 years ending July 1, 1874.² 10 months.³ 15 months.⁴ 14 months.

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC.—Continued.

Year.	Freight (gross earnings).							
	Philadel- phia and Reading R. R.	Lehigh Valley R. R.	New York Central and Hud- son River R. R.	Lake Shore and Michi- gan South- ern Rwy.	Michigan Central R. R.	New York, Chicago and St. Louis Rwy.	Cleve- land, Cin- cinnati, Chicago and St. Louis Rwy.	New York, Lake Erie and West- ern R. R.
1852.....	\$2, 289, 641	.....	.....	.....	.....	.....	.....	\$1, 883, 198
1853.....	2, 435, 306	.....	.....	.....	.....	.....	.....	2, 537, 215
1854.....	3, 485, 449	.....	\$2, 943, 966	.....	.....	.....	.....	3, 659, 590
1855.....	3, 989, 946	.....	3, 755, 320	.....	.....	.....	.....	3, 655, 002
1856.....	3, 591, 157	.....	5, 052, 059	.....	.....	.....	.....	4, 545, 722
1857.....	2, 742, 909	.....	5, 275, 876	.....	.....	.....	.....	4, 097, 610
1858.....	2, 201, 608	.....	4, 244, 639	.....	.....	.....	.....	3, 843, 310
1859.....	2, 358, 573	.....	4, 049, 530	.....	.....	.....	.....	3, 195, 869
1860.....	2, 927, 778	.....	4, 943, 638	.....	.....	.....	.....	3, 884, 343
1861.....	2, 517, 344	.....	5, 557, 019	.....	.....	.....	.....	4, 351, 464
1862.....	3, 402, 836	.....	7, 972, 304	.....	\$1, 559, 661	.....	.....	6, 642, 915
1863.....	5, 570, 343	.....	9, 449, 554	.....	1, 983, 757	.....	.....	8, 432, 234
1864.....	8, 157, 551	.....	10, 685, 672	.....	2, 073, 275	.....	.....	9, 855, 088
1865.....	9, 792, 569	.....	11, 000, 058	.....	2, 233, 529	.....	.....	10, 726, 264
1866.....	9, 667, 236	.....	12, 017, 532	.....	2, 208, 592	.....	.....	11, 611, 023
1867.....	7, 970, 429	.....	11, 993, 008	.....	2, 285, 522	.....	.....	11, 204, 689
1868.....	7, 667, 947	\$4, 270, 650	12, 479, 950	.....	2, 480, 974	.....	\$1, 843, 130	10, 780, 976
1869.....	9, 925, 863	4, 482, 033	14, 066, 386	.....	2, 755, 200	.....	2, 090, 544	12, 583, 794
1870.....	8, 189, 315	5, 462, 607	14, 489, 217	\$8, 746, 126	2, 634, 439	.....	2, 269, 038	11, 983, 547
1871.....	10, 593, 936	4, 825, 667	14, 470, 402	10, 341, 218	3, 072, 558	.....	2, 873, 536	12, 861, 999
1872.....	10, 201, 145	5, 513, 439	16, 259, 647	12, 824, 862	3, 398, 346	.....	3, 439, 999	14, 509, 745
1873.....	12, 707, 271	6, 202, 892	19, 616, 018	14, 192, 399	3, 852, 933	.....	3, 735, 895	15, 015, 807
1874.....	12, 301, 215	6, 224, 927	20, 348, 725	11, 918, 350	4, 447, 839	.....	3, 148, 197	13, 740, 042
1875.....	10, 662, 707	5, 526, 366	17, 899, 702	9, 639, 038	4, 417, 276	.....	2, 647, 225	12, 287, 399
1876.....	9, 658, 183	6, 221, 740	17, 593, 265	9, 405, 629	4, 158, 887	.....	2, 537, 009	11, 429, 929
1877.....	10, 418, 795	6, 035, 697	16, 424, 317	9, 476, 608	2, 516, 686	.....	2, 453, 804	10, 647, 807
1878.....	9, 897, 718	5, 117, 053	19, 045, 830	10, 048, 952	4, 646, 248	.....	2, 601, 385	11, 914, 489
1879.....	11, 013, 718	5, 500, 023	18, 270, 250	11, 288, 261	4, 986, 988	.....	2, 796, 405	12, 233, 481
1880.....	13, 415, 957	7, 232, 178	22, 190, 966	14, 077, 294	6, 195, 971	.....	3, 328, 209	14, 391, 115
1881.....	14, 756, 547	8, 805, 347	20, 736, 750	12, 659, 987	5, 675, 731	.....	3, 225, 356	15, 979, 576
1882.....	16, 062, 379	9, 427, 765	17, 672, 252	12, 022, 577	5, 426, 455	.....	3, 159, 417	14, 642, 128
1883.....	21, 675, 654	9, 387, 201	20, 142, 433	12, 480, 094	9, 472, 365	2, 000, 562	3, 068, 717	17, 212, 621
1884.....	22, 308, 523	8, 058, 711	16, 434, 983	9, 358, 816	7, 620, 887	2, 879, 309	2, 518, 873	15, 773, 005
1885.....	20, 971, 666	7, 696, 778	14, 702, 538	9, 031, 417	6, 906, 207	2, 909, 246	2, 471, 863	13, 813, 249
1886.....	22, 103, 555	7, 775, 705	18, 476, 532	10, 329, 625	7, 938, 572	3, 522, 548	2, 877, 157	16, 894, 908
1887.....	15, 967, 363	8, 596, 172	21, 143, 098	12, 547, 923	9, 309, 987	4, 471, 697	3, 170, 563	18, 466, 701
1888.....	15, 099, 105	7, 615, 665	20, 259, 352	12, 197, 661	9, 365, 073	4, 767, 223	3, 150, 474	20, 359, 293
1889.....	14, 717, 172	11, 498, 017	19, 821, 550	11, 270, 451	8, 519, 068	4, 292, 586	2, 971, 110	20, 023, 148
1890.....	16, 328, 628	12, 981, 104	21, 515, 907	13, 433, 192	9, 307, 029	5, 122, 149	7, 319, 921	22, 507, 184
1891.....	16, 714, 855	13, 971, 815	21, 392, 168	12, 988, 400	9, 389, 985	5, 534, 574	8, 337, 130	22, 233, 916
1892.....	.....	.....	26, 777, 687	14, 617, 655	10, 628, 916	5, 823, 882	9, 129, 417	24, 859, 494

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC.—Continued.

Year.	Freight (gross earnings).							
	New York, Pennsylvania and Ohio R. R.	Chicago and Erie R. R.	Pennsylvania R. R.	Pittsburg Fort Wayne and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg Rwy.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.
1855.....			\$2, 805, 306					
1856.....			3, 244, 292					
1857.....			3, 374, 041	\$657, 686				
1858.....			3, 536, 206	667, 296				
1859.....			3, 656, 111	964, 133				
1860.....			4, 191, 784	1, 309, 714				
1861.....			5, 398, 026	1, 905, 707				\$2, 324, 367
1862.....			7, 668, 420	2, 401, 630				2, 712, 362
1863.....			8, 602, 262	3, 341, 034				4, 177, 139
1864.....			10, 361, 999	4, 148, 504				5, 963, 110
1865.....			11, 193, 565	4, 739, 068				6, 704, 337
1866.....			11, 709, 294	4, 707, 582				6, 516, 261
1867.....			11, 832, 300	4, 483, 616				6, 224, 376
1868.....	\$3, 702, 860		12, 882, 165	5, 231, 857	\$1, 483, 454			6, 619, 864
1869.....	4, 022, 915		12, 932, 657	5, 020, 874	1, 690, 382	\$2, 299, 595		7, 999, 011
1870.....	3, 318, 902		12, 793, 160	4, 892, 326	1, 880, 024			7, 471, 007
1871.....			14, 052, 305	5, 581, 051	2, 320, 076	2, 852, 014		9, 133, 518
1872.....	4, 126, 479		16, 856, 891	6, 909, 306	6, 863, 733	3, 201, 585		9, 738, 885
1873.....	4, 134, 844		19, 608, 555	6, 716, 399	2, 725, 024	3, 298, 011		10, 658, 999
1874.....	3, 738, 243		17, 227, 504	5, 841, 961	2, 653, 317	2, 691, 990		10, 175, 432
1875.....	2, 913, 581		15, 651, 741	5, 430, 511	2, 317, 645	2, 522, 593		8, 900, 940
1876.....	2, 729, 627		14, 539, 785	5, 266, 172	2, 193, 116	2, 328, 911		7, 957, 885
1877.....	2, 911, 543		14, 642, 109	4, 790, 424	2, 191, 782	2, 293, 411		6, 897, 241
1878.....	2, 764, 781		15, 904, 501	5, 600, 557	2, 270, 836	2, 379, 661		7, 363, 110
1879.....	3, 084, 716		17, 016, 989	6, 066, 593	2, 643, 714	2, 815, 910		7, 693, 794
1880.....	3, 945, 494		20, 234, 046	7, 395, 452	3, 217, 078	3, 521, 559		9, 849, 891
1881.....	4, 057, 264		32, 572, 448	7, 785, 730	2, 884, 041	3, 625, 508		9, 407, 337
1882.....	4, 315, 028		34, 829, 240	7, 464, 057	2, 927, 998	3, 636, 670		8, 634, 169
1883.....			36, 400, 551	7, 432, 479	3, 243, 667	3, 781, 107		9, 559, 555
1884.....		\$1, 028, 730	30, 366, 227	6, 111, 217	2, 706, 212	2, 902, 433		9, 424, 494
1885.....		927, 004	30, 895, 748	5, 500, 653	2, 793, 620	3, 159, 887		8, 003, 037
1886.....		896, 689	34, 623, 877	6, 249, 610	3, 504, 742	3, 448, 447		7, 895, 976
1887.....		1, 497, 819	38, 080, 823	7, 940, 113	4, 327, 355	4, 314, 563		15, 780, 460
1888.....		1, 731, 648	39, 147, 056	6, 671, 751	5, 414, 648	4, 086, 640		14, 382, 285
1889.....		1, 570, 293	39, 935, 701	7, 443, 913	4, 961, 085	3, 895, 286		14, 311, 052
1890.....		2, 003, 954	45, 632, 959	8, 434, 588	5, 877, 749	4, 895, 496		16, 820, 156
1891.....		1, 646, 426	45, 085, 147				\$11, 300, 325	16, 475, 903
1892.....		2, 202, 798	47, 619, 280				12, 328, 623	17, 742, 046

Year.	Freight (gross earnings).							
	Baltimore and Ohio South-western R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton, and Dayton R. R.	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.	Chicago and North-western Rwy.
1865.....								\$4, 448, 599
1866.....								5, 393, 191
1867.....								6, 649, 590
1868.....		\$1, 586, 819	\$727, 276				\$4, 266, 284	8, 266, 809
1869.....		1, 567, 498	696, 692				4, 909, 525	9, 291, 478
1870.....		1, 789, 140	493, 342				5, 148, 356	8, 187, 597
1871.....		1, 883, 780	544, 150				4, 444, 568	7, 700, 808
1872.....		2, 164, 499	592, 215				4, 566, 991	7, 521, 275
1873.....		2, 589, 361	590, 161				6, 421, 369	8, 614, 260
1874.....		2, 329, 745	574, 847				6, 137, 152	10, 270, 519
1875.....		1, 949, 519	531, 980				5, 690, 568	8, 837, 828
1876.....			509, 696				5, 384, 231	9, 001, 178
1877.....		1, 295, 832	521, 954				5, 627, 906	8, 415, 599
1878.....		1, 908, 809	492, 643	\$3, 514, 999			5, 750, 497	10, 016, 921
1879.....		2, 522, 338	505, 161				6, 850, 755	9, 924, 030
1880.....		2, 686, 608	1, 493, 977		\$618, 778	1, 086, 849	8, 884, 227	11, 995, 975
1881.....		2, 949, 350	1, 721, 790		710, 490	1, 182, 106	11, 844, 796	14, 414, 151
1882.....		2, 099, 345	1, 748, 872		1, 022, 292	1, 419, 726	14, 002, 335	17, 525, 134
1883.....		2, 631, 748	1, 855, 381		1, 142, 329	1, 989, 757	16, 365, 354	16, 894, 352
1884.....		2, 379, 626	1, 772, 569		1, 087, 240	2, 155, 807	16, 128, 964	17, 677, 866
1885.....		2, 063, 548	1, 657, 670		1, 185, 286	1, 944, 598	17, 101, 742	16, 917, 394
1886.....		2, 227, 255	1, 668, 424		1, 343, 564	2, 900, 990	17, 358, 294	17, 503, 244
1887.....		2, 407, 825	2, 030, 879		1, 627, 217	2, 444, 932	17, 742, 142	19, 329, 484
1888.....		2, 268, 672	2, 062, 668	4, 537, 282	1, 570, 822	2, 382, 385	16, 933, 042	19, 208, 436
1889.....	\$1, 135, 195	2, 218, 962	2, 036, 071	4, 502, 257	1, 612, 300	2, 244, 049	17, 297, 317	18, 018, 182
1890.....	657, 433	2, 433, 555	2, 183, 089	9, 258, 053	1, 718, 962	2, 848, 656	18, 337, 010	19, 864, 152
1891.....	1, 375, 221	2, 332, 248	2, 317, 739	8, 860, 819	1, 871, 460	2, 591, 371	19, 012, 159	19, 980, 910
1892.....	1, 678, 800	2, 467, 779	2, 676, 120	9, 800, 969	2, 139, 357	2, 749, 298	23, 241, 421	23, 320, 914

18 months.

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC.—Continued.

Year.	Freight (gross earnings).							
	Chicago, Burlington and Quincy R. R.	Chicago, Rock Island and Pacific Rwy.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central R. R.	Northern Pacific R.R.	Union Pacific Rwy.	Atchison, Topeka and Santa Fe R. R.
1862.....			¹ \$215,467	\$1,803,998				
1863.....	\$2,542,827	\$1,034,850	1,120,448	2,500,960				
1864.....	2,979,016	1,448,965	1,479,659	3,706,633				
1865.....	3,919,860	2,222,309	2,155,152	4,040,587				
1866.....	4,204,741	2,016,306	2,309,499	3,945,865				
1867.....	4,124,693	2,428,824	2,430,008	4,490,521				
1868.....	4,216,911	2,934,504	2,953,629	4,172,841			\$3,458,104	
1869.....	4,758,864	3,575,916	3,066,144	4,602,817				
1870.....	4,514,629	3,587,002	3,312,068	4,609,890			3,058,515	\$110,754
1871.....	4,949,684	4,023,272	3,740,203	4,737,975			3,629,489	256,187
1872.....	5,299,874	4,213,372	3,607,643	4,305,617	\$68,214		4,768,419	
1873.....	8,035,349	4,597,983	3,897,462	4,148,901	98,864	\$237,154	5,516,908	805,557
1874.....	8,445,910	5,003,001	3,446,881	3,986,691	378,998	251,325	5,664,731	836,197
1875.....	8,502,617	5,292,412	3,173,531	3,619,239	420,038	259,318	6,641,512	1,116,749
1876.....		5,121,557	3,541,346	3,190,448			7,304,123	1,688,107
1877.....	9,554,544	5,253,779	3,067,769	3,032,337	483,996	563,780	7,597,681	1,853,248
1878.....	11,152,179	5,575,733	3,409,510	3,174,160	496,018	779,616	8,295,878	2,826,483
1879.....	11,650,623	6,929,926	4,242,791	3,262,526	596,544	701,696	8,692,414	4,883,435
1880.....	16,054,197	8,035,165	5,808,484	3,671,373	815,417	1,585,514	15,218,507	6,499,981
1881.....	16,595,819	8,690,480	5,546,870	5,875,649	960,045	2,207,299	17,063,127	9,051,623
1882.....	15,711,510	9,687,097	5,948,123	5,918,152	937,132	3,909,423	15,402,167	10,537,201
1883.....	19,514,161	7,928,237	6,197,681	8,664,959	924,699	5,409,080	14,268,292	10,374,012
1884.....	18,514,431	8,056,316	6,073,675	7,902,043	916,262	7,865,367	11,660,311	11,946,453
1885.....	19,565,853	8,144,142	5,432,633	8,145,920	990,258	7,446,266	12,070,749	10,873,621
1886.....	19,367,935	7,713,659	5,392,059	8,332,151	1,012,369	8,189,615	12,230,271	11,100,967
1887.....	18,675,655	8,037,452	6,070,639	9,034,863	1,358,246	8,730,547	13,436,495	12,248,344
1888.....	15,660,444	8,975,020	5,672,808	8,246,163	1,419,176	10,127,461	13,700,499	10,538,462
1889.....	17,222,739	8,773,829	4,952,952	8,910,464	2,642,711	12,671,095	12,849,983	9,731,075
1890.....	19,698,608	12,293,176	5,345,620	10,004,754	3,437,206	15,447,885	14,575,124	15,017,156
1891.....	16,495,602	11,240,988	4,672,880	12,160,600	3,743,347	17,388,955	13,679,227	17,114,821
1892.....	21,444,246	12,525,794	5,472,271	² 12,809,973	² 3,987,833	² 17,220,705	14,251,969	19,114,978

¹ 2½ months.² As reported; not verified in this office.

Year.	Freight (gross earnings).					
	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio R. R.
1862.....				\$403,231		
1863.....				831,659		
1864.....				1,110,106		
1865.....				1,311,342		³ \$894,541
1866.....				1,426,890	\$381,773	1,433,491
1867.....				1,152,477	399,500	1,400,815
1868.....			\$316,985	1,215,703	363,001	1,179,182
1869.....				1,353,795	375,192	1,384,402
1870.....			360,481	1,723,644	405,701	1,760,072
1871.....			421,904	1,847,089	476,535	
1872.....			¹ 393,201	2,015,266	514,648	2,089,681
1873.....	\$200,129	\$231,557	710,385	3,135,798	613,872	2,074,795
1874.....	200,846	572,473	950,312	3,172,550	602,130	1,838,924
1875.....	213,631	729,866	993,862	2,615,936	608,793	1,423,998
1876.....		1,113,044	1,177,942		589,518	1,493,421
1877.....	520,259	1,449,988	1,285,184	3,455,704	612,637	1,614,240
1878.....		1,660,645	1,527,151	3,723,643	669,713	1,625,071
1879.....		1,582,926	1,444,768	3,627,925	801,247	1,444,737
1880.....	2,411,457	2,053,018	1,993,812	5,134,225	1,275,889	1,772,984
1881.....	4,332,150	2,408,083	2,658,361	7,407,403	1,437,016	1,791,503
1882.....	4,412,186	3,806,944	2,600,539	8,050,339	2,318,122	1,617,932
1883.....	5,351,912	4,567,043	3,081,032	8,786,574	2,606,225	1,716,339
1884.....	4,232,447	4,037,484	2,728,468	9,233,671	2,511,760	1,712,923
1885.....	4,580,491	3,868,716	2,639,569	8,703,795	2,660,755	1,526,494
1886.....	5,003,160	4,282,448	3,319,371	8,655,860	2,646,434	1,471,097
1887.....	5,772,172	4,186,782	3,504,421	10,254,483	2,716,699	1,762,181
1888.....	5,621,209	4,384,699	3,545,909	11,594,266	5,385,859	1,957,347
1889.....	5,243,879	4,369,922	3,296,801	7,715,865	6,323,713	2,090,797
1890.....	5,743,750	5,065,557	5,385,402	8,590,267	7,311,908	2,333,020
1891.....	6,189,360	4,857,269	5,963,516	8,730,893	6,696,386	2,653,444
1892.....	6,017,044	4,748,077		² 9,965,266	² 6,334,433	² 2,554,407

¹ Eastern division.² As reported; not verified in this office.³ 7½ months.

CHANGES IN LOCAL RATES.

Rates charged between points located upon the same road are designated as "local rates." Numerous causes have operated to reduce the charges upon traffic carried at such rates; principal among these have been the reductions in freight classifications and the operation of the act to regulate commerce. Prior to April, 1887, local rates were in many instances upon a higher basis than those charged between terminals, the latter, in the majority of cases, being competitive points and having the benefit of competitive rates. When the act referred to became effective it was found that the majority of these rates were at variance with the fourth section, known as the long and short haul clause of the act. A very general revision of the tariffs covering the local traffic therefore became necessary, which has resulted in large reductions to local points.

Aside from these causes there has been a gradual downward tendency of rates of this character, and there are few roads throughout the United States which within the last ten or fifteen years have not reduced their local rates from 10 to 50 per cent. Considerable data have been collected for the purpose of showing the extent of these changes upon roads in various sections of the United States, and will here follow. The most satisfactory form of presenting these changes would be to show the rates upon the principal commodities carried by the different roads for which tables are given. It has been, however, impossible to do this through failure to obtain the classifications applying exclusively to local traffic, and the comparisons are, therefore, necessarily confined to the rates of the respective classes.

TABLE 134.—COMPARISON OF LOCAL MILEAGE RATES CHARGED BY MAINE CENTRAL RAILROAD DURING 1872 AND 1893.

Distances.	Classes (rates in cents per 100 pounds).							
	1.		2.		3.		4.	
	1872.	1893.	1872.	1893.	1872.	1893.	1872.	1893.
For 50 miles	83	26	22	18	12½	12½	9	9
For 100 miles	42	34	32	26	18	18	15	15
For 150 miles	49	40	39	31	22	22	19	19
For 200 miles	54	45	44	35	25	25	22	22

TABLE 135.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF THE ARTICLES NAMED FROM BOSTON, MASS., TO LOCAL STATIONS IN MASSACHUSETTS DURING 1868, 1874, 1881, 1887, AND 1893.

[Compiled from tariffs of Boston and Albany Railroad.]

[Cents per 100 pounds.]

Articles.	From Boston, Mass., to—															
	South Framingham, Mass.								Westboro, Mass.							
	1874.				1881.				1887.				1893.			
	1868.		1874.		1881.		1887.		1893.		1874.		1881.		1887.	
	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.
Bacon.....	12	11	11	8	8	5	5	5	5	14	12	12	9	9	6	6
Boots and shoes.....	12	11	11	9	9	9	9	9	9	14	12	12	10	10	10	10
Coffee.....	12	11	11	6	6	5	5	5	5	14	12	12	8	8	6	6
Cutlery.....	12	11	11	9	9	8	8	8	8	14	12	12	10	9	9	9
Dry goods.....	12	11	11	9	9	9	9	9	9	14	12	12	10	10	10	10
Glassware.....	12	11	11	9	9	8	8	8	8	14	12	12	10	9	9	8
Starch.....	12	11	11	6	6	5	5	5	5	14	12	12	8	8	6	6
Twine.....	12	11	11	9	9	9	9	9	9	14	12	12	10	10	10	10
Crockery, in hogs- heads or casks.....	9	8	8	6	6	5	5	5	5	11	9	9	8	8	6	6
Flour.....	9	8	8	5	6	5	5	5	5	11	9	9	6	8	6	6
Rice.....	9	9	9	6	6	5	5	5	5	11	11	11	8	8	6	6
Soap.....	9	9	9	8	8	5	5	5	5	11	11	11	9	9	6	6
Vinegar.....	9	9	9	6	6	5	6	5	6	11	11	11	8	8	6	8
Axle grease.....	8	8	8	6	6	5	5	5	5	9	9	9	8	8	6	6
Cement.....	8	6	8	5	6	5	5	5	5	9	7	9	6	8	6	6
Lard.....	8	8	8	6	6	5	5	5	5	9	9	9	8	8	6	6
Nails.....	8	8	8	6	6	5	5	5	5	9	9	9	8	8	6	6
Sugar, in hogsheads.....	8	8	9	6	8	5	5	5	5	9	9	11	8	9	6	6
Coal.....	7	6	9	5	8	5	9	5	9	8	7	11	6	9	6	10
Plaster.....	7	6	8	5	6	5	5	5	5	8	7	9	6	8	6	6

Articles.	From Boston, Mass., to—															
	Springfield, Mass.								North Adams, Mass.							
	1874.				1881.				1887.				1893.			
	1868.		1874.		1881.		1887.		1893.		1874.		1881.		1887.	
	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.
Bacon.....	25	24	24	17	17	12	12	12	12	38	38	38	27	27	15	15
Boots and shoes.....	25	24	24	20	20	20	20	20	20	38	38	38	31	31	30	30
Coffee.....	25	24	24	14	14	12	12	12	12	38	38	38	23	23	15	15
Cutlery.....	25	24	24	20	20	17	17	17	17	38	38	38	31	31	27	27
Dry goods.....	25	24	24	20	20	20	20	20	20	38	38	38	31	31	30	30
Glassware.....	25	24	24	20	20	17	17	14	17	38	38	38	31	31	27	22
Starch.....	25	24	24	14	14	12	12	12	12	38	38	38	23	23	15	15
Twine.....	25	24	24	20	20	20	20	12	20	38	38	38	31	31	30	15
Crockery, in hogs- heads or casks.....	21	17	17	14	14	12	12	12	12	32	25	25	23	23	15	15
Flour.....	21	17	17	12	14	12	12	12	12	32	25	25	19	23	15	15
Rice.....	21	21	21	14	14	12	12	12	12	32	32	32	23	23	15	15
Soap.....	21	21	21	17	17	12	12	12	12	32	32	32	27	27	15	15
Vinegar.....	21	21	21	14	14	12	14	12	14	32	32	32	23	23	15	22
Axle grease.....	18	21	21	14	14	12	12	12	12	25	25	25	23	23	15	15
Cement.....	18	14	17	12	14	12	12	12	12	25	21	25	19	23	15	15
Lard.....	18	17	17	14	14	12	12	12	12	25	25	25	23	23	15	15
Nails.....	18	17	17	14	14	12	12	12	12	25	25	25	23	23	15	15
Sugar.....	18	17	21	14	17	12	12	12	12	25	25	32	23	27	15	15
Coal.....	15	14	21	12	17	12	20	12	20	21	21	32	19	27	15	30
Plaster.....	15	14	17	12	14	12	12	12	12	21	21	25	19	23	15	15

TABLE 135.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF THE ARTICLES NAMED FROM BOSTON, MASS., ETC.—Continued.

Articles.	From Boston, Mass., to—															
	Pittsfield, Mass.								Chatham, N. Y.							
	1874.				1881.				1887.				1893.			
	1874.		1881.		1887.		1893.		1874.		1881.		1887.		1893.	
	1868.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.
Bacon	35	33	33	24	24	15	15	15	42	38	38	27	27	15	15	15
Boots and shoes	35	33	33	28	28	28	28	28	42	38	38	32	32	30	30	30
Coffee	35	33	33	20	20	15	15	15	42	38	38	23	23	15	15	15
Cutlery	35	33	33	28	28	24	24	24	42	38	38	32	32	27	27	27
Dry goods	35	33	33	28	28	28	28	28	42	38	38	32	32	30	30	30
Glassware	35	33	33	28	28	24	24	20	42	38	38	32	32	27	27	22
Starch	35	33	33	20	20	15	15	15	42	38	38	23	23	15	15	15
Twine	35	33	33	28	28	28	28	15	42	38	38	32	32	30	30	15
Crockery, in hogs- heads or casks	29	23	23	20	20	15	15	15	35	27	27	23	23	15	15	15
Flour	29	23	23	16	20	15	15	15	35	27	27	18	23	15	15	15
Rice	29	29	29	20	20	15	15	15	35	33	33	23	23	15	15	15
Soap	29	29	29	24	24	15	15	15	35	33	33	27	27	15	15	15
Vinegar	29	29	29	20	20	15	20	15	35	33	33	23	23	15	22	15
Axle grease	23	23	23	20	20	15	15	15	29	27	27	23	23	15	15	15
Cement	23	19	23	16	20	15	15	15	29	22	27	18	23	15	15	15
Lard	23	23	23	20	20	15	15	15	29	27	27	23	23	15	15	15
Nails	23	23	23	20	20	15	15	15	29	27	27	23	23	15	15	15
Sugar	23	23	29	20	24	15	15	15	29	27	33	23	27	15	15	15
Coal	19	19	29	16	24	15	28	15	23	22	33	18	27	15	30	15
Plaster	19	19	23	16	20	15	15	15	23	22	27	18	23	15	15	15

TABLE 136.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK AND NEW ENGLAND RAILROAD FROM BOSTON TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Local classification; 1893, Official classification.]

Distance. Miles.	From Boston, Mass., to—	Classes (rates in cents per 100 pounds).									
		1.		2.		3.		4.		5.	6.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1893.	1893.
57	Thompson, Conn	18	18	15	15	12	12	10	10	9	8
74	Hampton, Conn	19	18	16	16	14	13	12	11	10	9
86	Willimantic, Conn	21	20	19	18	15	15	13	13	11	9
95	Andover, Conn	23	22	19	19	15	16	13	14	12	10
101	Bolton, Conn	25	22	21	19	17	16	15	14	12	10
109	Rockville, Conn	26	24	22	21	18	17	16	15	13	11
109	Manchester, Conn	25	22	21	19	17	16	15	14	12	10
117	Hartford, Conn	25	22	21	19	17	16	15	14	12	10
126	New Britain, Conn	25	22	21	19	17	16	15	14	12	10
131	Plainville, Conn	28	22	24	19	19	16	16	14	12	10
133	Forestville, Conn	30	26	25	23	20	19	17	15	13	12
135	Bristol, Conn	30	26	25	23	21	19	17	15	13	12
150	Waterbury, Conn	30	27	25	24	21	20	17	15	14	13
174	Hawleyville, Conn	38	30	33	25	28	20	23	15	15	14
180	Danbury, Conn	38	30	33	25	28	20	23	15	15	14
185	Mill Plain, N. Y	40	30	35	25	29	20	24	15	15	14
190	Brewster, N. Y	40	30	35	25	29	20	24	15	15	14
196	Townsend, N. Y	40	30	35	25	29	20	24	15	15	15
198	West Patterson, N. Y	40	30	35	25	29	20	24	15	15	15
207	Poughquag, N. Y	42	30	37	25	31	20	26	15	15	15
211	Stormville, N. Y	42	30	37	25	31	20	26	15	15	15
215	Hopewell, N. Y	42	30	37	25	31	20	26	15	15	15
228	Fishkill Landing, N. Y	45	30	40	25	34	20	28	15	15	15
229	Newburg, N. Y	49	30	43	25	36	20	30	15	15	15

TABLE 137.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK, LAKE ERIE AND WESTERN RAILROAD BETWEEN ELMIRA, N. Y., AND STATIONS NAMED DURING 1886 AND 1893.

Distance. <i>Miles.</i>	Between Elmira, N. Y., and—	Classes (rates in cents per 100 pounds).												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.
73	Great Bend, Pa	21	21	17	18	13	15	10	10	8½	8½	7½	7½	6½
81	Susquehanna, Pa	21	22	18	19	14	16	11	11	8½	9	7½	8	6½
97	Deposit, N. Y.	24	24	19	21	15	17	12	12	9	10	8	9	7
110	Hancock, N. Y.	26	26	20	22	16	18	13	13	10	11	9	10	7½
138	Callicoon, N. Y.	28	28	22	24	17	20	15	15	11½	12½	10	11½	8½
151	Narrowsburg, N. Y.	28	29	22	25	17	21	15	15	11½	13	10½	12	9½
157	Mast Hope, Pa.	30	30	23	26	18	21	16	16	12	13½	10½	12½	9½
163	Lackawaxen, Pa.	30	30	23	26	18	21	16	16	12½	13½	10½	12½	9½
167	Shohola, Pa.	31	31	24	27	19	22	17	17	12½	13½	10½	12½	9½
186	Port Jervis, N. Y.	33	33	27	28	20	23	17	17	13	14	11½	13	10½
198	Otisville, N. Y.	34	34	27	29	21	24	18	18	13½	14	11½	13	10½
203	Howells, N. Y.	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
207	Middletown, N. Y.	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
210	Hampton, N. Y.	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
214	Goshen, N. Y.	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
220	Greycourt, N. Y.	37	35	29	30	23	25	18	18	14	15	13	13	11½
224	Monroe, N. Y.	37	35	29	30	23	25	18	18	14	15	13	13	11½
226	Turners, N. Y.	37	35	29	30	23	25	18	18	14	15	13	13	11½
239	Sterlington, N. Y.	38	35	30	30	23	25	18	18	14½	15	13½	13	12½
246	Ramseys, N. J.	39	35	31	30	23	25	18	18	15	15	14	13	12½
250	Hohokus, N. J.	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
252	Ridgewood N. J.	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
257	Paterson, N. J.	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
262	Passaic, N. J.	40	35	32	30	23	25	18	18	15½	15	15	13	13
264	Rutherford, N. J.	40	35	32	30	23	25	18	18	15½	15	15	13	13
273	Jersey City, N. J.	41	35	33	30	24	25	19	18	16	15	15	13	13½
274	New York, N. Y.	41	35	33	30	24	25	19	18	.....	15	.....	13	.....

NOTE.—Rates given for 1886 were subject to Joint Merchandise classification; those for 1893 to Official classification.

TABLE 138.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK, LAKE ERIE, AND WESTERN RAILROAD BETWEEN PATERSON, N. J., AND STATIONS NAMED DURING 1886 AND 1893.

[1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	Between Paterson, N. J., and—	Classes (rates in cents per 100 pounds).												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.
<i>Miles.</i>														
5	Ridgewood, N. J.	8	8	7	7	6	6	4	5	3	3	2½	2½	2½
7	Hohokus, N. J.	8	10	7	8	6	7	4	5	3½	3½	2½	3	2½
11	Ramseys, N. J.	8	11	7	9	6	7	5	5	3½	4	3	3½	2½
15	Suffern, N. Y.	10	12	8	10	7	8	5	6	4	4½	3½	4	3
18	Sterlington, N. Y.	10	13	8	10	7	9	5	7	4	5	3½	4½	3
31	Turners, N. Y.	14	14	11	11	10	10	7	7	4½	5½	4½	5	3½
37	Greycourt, N. Y.	15	15	12	12	10	10	7	7	5½	6	4½	5	4
43	Goshen, N. Y.	16	16	13	13	11	11	8	8	6½	6½	5½	5½	4½
47	Hampton, N. Y.	17	17	13	14	11	12	8	8	6½	6½	5½	5½	4½
50	Middletown, N. Y.	18	18	14	15	12	13	9	9	6½	7	5½	6	5½
71	Port Jervis, N. Y.	21	21	17	18	13	15	10	10	8½	8½	7½	7½	6½
94	Lackawaxen, Pa.	24	24	19	21	15	17	12	12	9	10	8	9	6½
160	Deposit, N. Y.	30	30	23	26	18	21	16	16	12½	13½	10½	12	9½
176	Susquehanna, Pa.	33	33	26	28	20	23	17	17	12½	14	11	13	10
184	Great Bend, Pa.	33	33	27	28	20	23	17	17	13	14	11½	13	10½
198	Binghamton, N. Y.	34	34	27	29	21	24	18	18	13½	14	11½	13	10½
220	Owego, N. Y.	37	35	29	30	23	25	18	18	14	15	13	13	11½
239	Waverly, N. Y.	38	35	30	30	23	25	18	18	14½	15	13½	13	12½
244	Chemung, N. Y.	39	35	31	30	23	25	18	18	15	15	14	13	12½
257	Elmira, N. Y.	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
274	Corning, N. Y.	41	35	33	30	24	25	19	18	16	15	15	13	13½
285	Addison, N. Y.	42	35	34	30	25	25	20	18	16½	15	15½	13	13½
311	Canisteo, N. Y.	45	35	36	30	27	25	21	18	16½	15	15½	13	13½
327	Canaserago, N. Y.	45	35	36	30	27	25	21	18	16½	15	15½	13	13½
332	Swains, N. Y.	45	35	37	30	27	25	22	18	17	15	16	13	14½
339	Dalton, N. Y.	45	35	37	30	27	25	22	18	17	15	16	13	14½
345	Portage, N. Y.	45	35	37	30	27	25	22	18	17	15	16	13	14½
351	Silver Springs, N. Y.	46	35	38	30	28	25	23	18	17	15	16	13	14½
358	Warsaw, N. Y.	46	35	38	30	28	25	23	18	17	15	16	13	14½
364	Date, N. Y.	46	39	38	33	28	28	23	19	17	16	16	13	14½
368	Linden, N. Y.	46	39	38	33	28	28	23	19	17	16	16	13	14½
375	Attica, N. Y.	47	39	38	33	29	28	24	19	17½	16	16½	13	14½
396	Lancaster, N. Y.	49	39	40	33	30	28	24	19	17½	16	16½	13	14½
406	Buffalo, N. Y.	50	39	40	33	30	28	25	19	17½	16	16½	13	14½

TABLE 139.—COMPARISON OF RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE LEHIGH VALLEY RAILROAD FROM NEW YORK TO POINTS NAMED DURING 1876, 1886, AND 1893.

[1876 and 1886, Joint Merchandise classification; 1893, Official classification.]

Distance. <i>Miles.</i>	From New York, N. Y., to—	Classes (rates in cents per 100 pounds).																		
		1876.						1886.							1893.					
		1.	2.	3.	4.	*A.	*B.	1.	2.	3.	4.	*A.	*B.	*C.	1.	2.	3.	4.	5.	6.
78	Easton, Pa.....	33	28	22	15	200	160	25	22	18	15	200	160	140	22	18	15	12	10½	9½
90	Bethlehem, Pa.....	37	30	22	19	240	220	25	22	18	15	200	165	150	24	21	17	14	12	11
94	Allentown, Pa.....	38	31	23	20	250	225	31	22	18	16	210	190	170	26	22	18	15	13	11
110	Slatington, Pa.....	41	34	26	22	300	260	35	27	20	16	250	225	200	30	26	20	16	14	11
123	Mauch Chunk, Pa....	44	37	28	23	340	280	35	27	20	17	250	225	200	33	27	21	16	14	11
155	Hazleton, Pa.....	51	43	33	25	400	340	35	30	25	17	280	250	225	35	30	23	17	15	12
159	Mahanoy City, Pa....	45	35	27	22	310	310	40	32	25	18	260	235	210	35	30	23	17	15	12
177	Wilkesbarre, Pa.....	53	43	33	23	390	360	35	30	25	17	280	250	225	35	30	23	17	15	12
208	Tunkhannock, Pa....	58	46	35	26	440	370	41	32	26	19	310	270	250	35	30	23	17	15	12
255	Towanda Pa.....	60	48	37	26	450	380	46	36	29	21	340	300	270	35	30	25	18	15	13
308	Ithaca, N. Y.....	60	48	37	26	450	400	50	39	30	22	360	320	290	35	30	25	18	15	13
346	Geneva, N. Y.....	62	50	39	28	450	400	50	40	30	23	380	340	300	35	30	25	18	15	13

* Rates per ton.

TABLE 140.—COMPARISON OF LOCAL FREIGHT RATES UPON A MILEAGE BASIS CHARGED BY THE LEHIGH VALLEY RAILROAD FROM 1876 TO THE PRESENT TIME.

Distance.	Classes (rates in cents per 100 pounds).												Classes (rates in cents per ton).						
	1.			2.]			3.			4.]			5.	6.	A.		B.		C.
	1876-1881.	1882-1886.	1887-1893.	1876-1881.	1882-1886.	1887-1893.	1876-1881.	1882-1886.	1887-1893.	1876-1881.	1882-1886.	1887-1893.	1887-1893.	1887-1893.	1876-1881.	1882-1886.	1876-1881.	1882-1886.	1882-1886.
25 miles	16	15	14	13	12	11	10	9	9	8	7	7	5½	4½	120	110	95	100	90
50 miles	23	21	20	19	17	16	15	13	13	12	10	10	8	7	180	170	150	140	130
75 miles	31	25	24	24	19	19	19	15	15	15	12	12	9	8	250	190	180	170	150
100 miles	36	29	27	28	22	22	23	18	18	17	14	14	10	9	300	220	225	190	170
125 miles	42	32	30	32	24	24	25	20	19	19	15	15	11	10	340	240	260	210	190
150 miles	46	34	32	36	26	26	29	21	21	21	17	16	12	11	380	260	300	230	200
175 miles	52	37	34	41	29	28	32	23	23	24	18	17	14	12	410	280	330	250	220
200 miles	58	40	35	46	31	30	35	25	25	26	19	18	15	13	450	300	360	270	240

NOTE.—Rates 1876 to 1886, inclusive, were governed by a local classification; 1887 to 1893, by successive issues of Official classification.

TABLE 141.—COMPARISON OF FREIGHT RATES CHARGED BY THE PENNSYLVANIA RAILROAD FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM NEW YORK, PHILADELPHIA, AND BALTIMORE TO POINTS NAMED DURING THE YEARS, 1876, 1886, AND 1893.

[1876 and 1886, Joint Merchandise classification; 1893, Official classification.]

To—	Year.	Classes (rates in cents per 100 pounds).																	
		From New York, N. Y.						From Philadelphia, Pa.						From Baltimore, Md.					
		1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.
Trenton, N. J.	1876	20	17	15	12	...	...	14	12	11	11	...	...	35	30	25	18	...	...
	1886	17	17	14	12	...	...	10	10	9	8	...	...	35	30	25	18	...	...
	1893	20	16	13	9	8	7	13	11	10	7½	6½	6	29	24	20	14½	12½	10½
Harrisburg, Pa.	1876	45	30	25	20	...	...	30	25	20	15	...	...	30	25	20	15	18	...
	1886	35	30	23	17	...	...	30	25	20	15	...	...	35	25	20	15	...	...
	1893	33	28	22	17	15	12	27	22	18	13½	11½	10	27	22	18	13½	11½	10
Altoona, Pa.	1876	45	30	25	20	...	...	36	32	28	20	...	...	...	...	...	...	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	13	39	33	28	19	16	13
Pittsburg, Pa.	1876	45	30	25	29	...	...	36	32	28	20	...	...	...	...	...	...	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	13	39	33	28	19	16	13
Williamsport, Pa.	1876	40	35	30	25	...	...	36	32	27	23	...	...	43	38	33	25	...	...
	1886	40	32	23	18	...	...	37	29	23	18	...	...	35	27	23	17	...	...
	1893	35	30	23	17	15	12	35	30	23	17	15	12	35	30	23	17	15	12
Erie, Pa.	1876	40	35	30	25	...	...	36	32	27	23	...	...	43	38	32	28	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	13	39	33	28	19	16	13

TABLE 142.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE BUFFALO, ROCHESTER AND PITTSBURG RAILWAY BETWEEN ROCHESTER, N. Y., AND STATIONS NAMED DURING 1886 AND 1893.

[1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	From Rochester, N. Y., to—	Classes (rates in cents per 100 pounds.)												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886
Miles.														
2	Lincoln Park, N. Y.	10	8	8	7	6	6	5	5	4	3	3½	2½	3
12	Scottsville, N. Y.	12	10	10	8	8	7	6	5	5	3½	4	3	3½
18	Mumford, N. Y.	14	13	12	10	9	9	7	7	6	5	5	4	4
26	Le Roy, N. Y.	15	13	12	11	10	9	7	7	6	5	5	4	4
34	Pavilion, N. Y.	17	15	13	12	11	10	8	7	7	6	6	5	5
51	Silver Springs, N. Y.	18	17	14	13	12	11	9	8	8	6½	7	5½	6
84	Machias, N. Y.	20	18	15	15	13	13	9	9	8	7	7	6	6
94	Ashford, N. Y.	20	18	15	15	13	13	9	9	8	7	7	6	6
109	Salamanca, N. Y.	19	19	15	16	12	14	9	9	8	7½	7	6½	6
109	Kilbuck, N. Y.	20	19	16	16	13	14	10	9	9	7½	8	6½	7
118	Limestone, N. Y.	27	21	21	18	17	15	13	10	9	8½	8	7½	7
123	Kendall, Pa.	27	22	21	19	17	16	13	11	10	9	9	8	8
124	Bradford, Pa.	27	22	21	19	17	16	13	11	10	9	9	8	8
131	Big Shanty, Pa.	27	23	21	20	17	16	13	11	10	9½	9	8½	8
138	Riderville, Pa.	35	24	28	21	21	17	18	12	.....	10	.....	9	.....
144	Mt. Jewett, Pa.	35	24	28	21	21	17	18	12	.....	10	.....	9	.....
156	Rasselas, Pa.	35	26	28	22	21	18	18	13	.....	11	.....	10	.....
166	Johnsburg, Pa.	35	27	28	23	21	19	18	14	.....	11½	.....	10	.....
174	Ridgeway, Pa.	27	28	22	24	18	20	15	14	12	12	11	10	10
192	Brockwayville, Pa.	27	29	22	24	18	21	15	14	12	12	11	10	10
206	Du Bois, Pa.	27	30	22	24	18	21	15	14	12	12	11	10	10
214	Sykes, Pa.	35	31	30	27	25	22	20	17	17	13½	16	12½	15
228	Punxsutawney, Pa.	35	31	30	27	25	22	20	17	17	13½	16	12½	15
231	Walston, Pa.	35	31	30	27	25	22	20	17	17	13½	16	12½	15

TABLE 143.—COMPARISON OF LOCAL FREIGHT RATES FROM BUFFALO, N. Y., TO STATIONS NAMED CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Dis- tance.	From Buffalo, N. Y., to —	Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
<i>Miles.</i>													
129	Ashtabula, Ohio.....	28	21	23	18½	18	13½	13	10	10	8½	7½	7½
183	Cleveland, Ohio.....	30	22	24	19½	18	14	13	10½	10	9½	8	8
239	Norwalk, Ohio.....	35	27½	28	24	22	17½	16	13	12	11½	10	10
296	Toledo, Ohio.....	35	27½	28	24	22	17½	16	13	12	11½	10	10
329	Adrian, Mich.....	45	36½	35	32	25	23½	19	17	15	15	12	12
368	Butler, Ind.....	45	37	35	34	25	25	19	17	15	15	12	12
381	Homer, Mich.....	47	40½	37	35½	27	26	21	19	16	16½	14	14
385	Coldwater, Mich.....	47	41	37	36½	27	26½	21	19	16	17	14	14
388	Kendallville, Ind.....	45	37	35	34	25	25	19	17	15	15	12	12
410	Eaton Rapids, Mich.....	47	40½	37	35½	27	26	21	19	16	16½	14	14
455	South Bend, Ind.....	50	41	40	36½	30	26½	22½	19	17½	17	15	14
470	Plainwell, Mich.....	50	41	40	37	30	27	22½	19	17½	17	15	14
540	Chicago, Ill.....	50	42½	40	37½	30	27½	22½	20	17½	17½	15	15

TABLE 144.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY FROM TOLEDO, OHIO, TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Dis- tance.	From Toledo, Ohio, to—	Year.	Classes (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
<i>Miles.</i>								
33	Adrian, Mich.....	1886	13	11	10	8	6	5
		1893	9	8½	8	7½	6	4½
71	Jackson, Mich.....	1886	22	19	15	12	7	6
		1893	15½	14	11½	9½	7½	6
85	Homer, Mich.....	1886	23	21	17	12	9	8
		1893	17	15½	12½	9½	8	7
89	Coldwater, Mich.....	1886	26	21	17	13	10	8
		1893	19	17	15	11	9	7½
113	Cleveland, Ohio.....	1886	25	20	15	10	8	6
		1893	20	18	14	10	8	6
114	Eaton Rapids, Mich.....	1886	30	25	20	15	11	8
		1893	17	15½	12½	9½	8	7
136	Three Rivers, Mich.....	1886	33	26	20	15	12	9
		1893	24	21½	16½	12	10	8½
159	South Bend, Ind.....	1886	37	29	20	15	12	10
		1893	26½	24	18	13	11	9
174	Plainwell, Mich.....	1886	38	30	20	15	12	10
		1893	25	22½	17	12½	10½	9
187	Allegan, Mich.....	1886	40	30	20	15	12	10
		1893	26½	24	18	13	11	9
244	Chicago, Ill.....	1886	40	30	20	15	12	10
		1893	33	30	23	15	13	9

TABLE 145.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Dis- tance.	From Chicago, Ill., to—	Year.	Class (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
<i>Miles.</i>								
49	Otis, Ind.....	1886	16	14	13	11	8	6
		1893	11½	10½	9½	8	6½	5
89	Mishawaka, Ind.....	1886	25	22	18	13	10	7½
		1893	18	16	13	10	8	7
130	Three Rivers, Mich.....	1886	35	26	23	16	13	10
		1893	24	21½	16½	12	10	8
155	Coldwater, Mich.....	1886	37	30	25	18	13	10
		1893	26	23½	17½	13	11	9
162	Butler, Ind.....	1886	35	28	22	13	12	10
		1893	27	24	18½	13	10	8½
168	Plainwell, Mich.....	1886	40	30	20	15	12	10
		1893	28	24½	18½	13½	11½	9
187	Homer, Mich.....	1886	40	34	27	20	15	12
		1893	29½	26½	20	14	12	9
198	Jackson, Mich.....	1886	40	34	27	20	15	12
		1893	30½	27	20½	14½	12½	9
211	Adrian, Mich.....	1886	40	30	23	16	12½	10
		1893	32	28½	21	15	13	9
244	Toledo, Ohio.....	1886	40	30	23	16	12½	10
		1893	33	30	23	15	13	9
357	Cleveland, Ohio.....	1886	50	40	30	20	15	12
		1893	37	34	25	17	15	12

TABLE 146.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE MICHIGAN CENTRAL RAILROAD FROM DETROIT, MICH., KALAMAZOO, MICH., AND CHICAGO, ILL., TO POINTS NAMED DURING YEARS 1884 AND 1893.

Dis- tance.		Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.
<i>Miles.</i>	From Detroit, Mich., to—												
37½	Ann Arbor, Mich.....	19	9½	15	9	11	8½	8	7½	7	6	6	5
29	Ypsilanti, Mich.....	19	7½	15	7½	11	7½	8	7	6	5½	5	4½
76	Jackson, Mich.....	22	15½	19	14	15	11½	12	9½	7	7½	6	6
108	Bay City, Mich.....	25	25	20	20	15	15	12	12	10	10	8	8
108	East Saginaw, Mich.....	25	25	20	20	15	15	12	12	10	10	8	8
96	Albion, Mich.....	26	17	23	15½	20	12½	14	9½	9	8	8	7
121	Battle Creek, Mich.....	30	21½	25	19	19	15	14	11	10	9½	9	8
113	Lansing, Mich.....	30	19	25	16	20	13½	15	11	11	9	9	7
108	Marshall, Mich.....	30	19½	25	17½	19	13½	14	10½	10	9	9	7½
140	Owosso, Mich.....	32	19	25	16	20	13½	16	11	12	9	10	7
144	Kalamazoo, Mich.....	35	25	28	22½	20	17	15	12½	12	10½	9½	9
285	Chicago, Ill.....	40	33	30	30	20	23	15	15	12	13	10	10
170	Grand Rapids, Mich.....	40	26½	30	24	20	18	15	13	12	11	10	9
179	Niles, Mich.....	40	26½	30	24	20	18	15	13	12	11	10	9
228	Michigan City, Ind.....	40	33	30	30	20	23	15	15	12	13	10	10
	From Kalamazoo, Mich., to—												
107	Ann Arbor, Mich.....	35	20½	28	18½	20	14½	15	11	12½	9	9½	8
115	Ypsilanti, Mich.....	35	21½	28	19	20	15	15	11	12½	9½	9½	8
68	Jackson, Mich.....	24	14½	20	13½	16	11	12	9	8	7½	7	6
182	Bay City, Mich.....	40	30	30	26	25	19½	18	14	14	12	12	10
169	East Saginaw, Mich.....	40	30	30	26	25	19½	18	14	14	12	12	10
48	Albion, Mich.....	24	11½	18	10½	14	9½	12	8	8	6½	7	5½
23	Battle Creek, Mich.....	22	7½	18	7½	14	7½	10	7	7	5½	5	4
105	Lansing, Mich.....	33	20	26	18	20	14	15	10½	12	9	9	7½
36	Marshall, Mich.....	24	9½	18	9	14	8½	12	7½	8	6	7	5
132	Owosso, Mich.....	40	24	30	21½	25	16½	18	12	15	10	12	8½
144	Detroit, Mich.....	35	25	28	22½	20	17	15	12½	12½	10½	9½	9
141	Chicago, Ill.....	35	26½	28	24	20	18	15	13	12	11	9½	8½
162	Grand Rapids, Mich.....	23	.....	18	.....	15	.....	10	.....	6	.....	5	.....
47	Niles, Mich.....	30	11½	22	10½	18	9½	14	8	10	6½	7½	5½
84	Michigan City, Ind.....	35	26½	28	24	20	18	15	13	12	11	9½	8½
	From Chicago, Ill., to—												
248	Ann Arbor, Mich.....	45	33	35	30	30	22	20	15	15	13	12½	9
256	Ypsilanti, Mich.....	45	33	35	30	30	22	20	15	15	13	12½	9
209	Jackson, Mich.....	40	30½	34	27	27	20½	20	14½	15	12½	12	9
323	Bay City, Mich.....	50	33	40	30	30	23	20	15	12½	13	10	10
309	East Saginaw, Mich.....	50	33	40	30	30	23	20	15	12½	13	10	10
189	Albion, Mich.....	40	30½	34	27	27	20½	20	14½	15	12½	12	9
164	Battle Creek, Mich.....	38	27	30	24	25	18	18	13	15	11	10	8½
246	Lansing, Mich.....	40	32	35	29	28	22	20	15	15	13	12	9
177	Marshall, Mich.....	40	29	34	25½	27	19	20	13½	15	12	12	9
273	Owosso, Mich.....	45	33	35	30	28	23	18	15	14	13	12	9
68	Kalamazoo, Mich.....	35	26½	28	24	23	18	16	13	13	11	10	8½
285	Detroit, Mich.....	40	33	30	30	23	23	16	15	12½	13	10	9
303	Grand Rapids, Mich.....	25	29½	20	26	15	19½	12	14	10	12	9	9
94	Niles, Mich.....	25	18	22	16	18	13	13	10	10	8	7½	7
57	Michigan City, Ind.....	18	13	16	12	13	10½	11	8½	10	7½	7½	6

NOTE.—During 1884 rates were subject to Middle and Western States classification; 1893 rates are governed by Official classification.

TABLE 147.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CINCINNATI, JACKSON AND MACKINAW RAILROAD BETWEEN TOLEDO, OHIO, AND STATIONS NAMED DURING 1886 AND 1893.

[1886 Local classification; 1893 Official classification.]

Dis- tance.	Between Toledo, Ohio, and—	Year.	Classes (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
<i>Miles.</i>								
60	Addison, Mich.....	{ 1886	36	27	21	17	.....	.....
		{ 1893	13	12	10½	8½	7	6
114	Battle Creek, Mich.....	{ 1886	47	38	29	22	.....	.....
		{ 1893	21½	19	15	11	9½	8
156	Allegan, Mich.....	{ 1886	53	43	33	27	.....	.....
		{ 1893	26½	24	18	13	11	9

TABLE 148.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE GRAND RAPIDS AND INDIANA RAILROAD DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1892, Official classification.]

Distance.	Classes (rates in cents per 100 pounds).													
	1.		2.		3.		4.		A.	5.	Lum-ber.	6.	Coal.	6.
	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
<i>Miles.</i>														
5.....	10	8	8	7	7	6	6	5	5	4	3	3	3½	3
20.....	17	11	15	10	12	8	10	7	7	6	7	5	5	5
40.....	25	12½	20	11	16	9	14	7	11	6	8	5	6½	5
60.....	28	18	23	14	19	11	16	9	12½	7	9	6	7½	6
80.....	35	22	28	18	23	13	18	11	14½	8	10	7	8	7
100.....	38	25	31	20	24	15	20	11	17	9	10	7	10	7
200.....	52	35	42	30	32	22	24	16	22	13	17	12	14	12
250.....	58	40	48	34	38	26	28	18	24	16	17	14	16	14
300.....	63	45	53	38	43	28	35	19	30	18	18	16	17½	16
400.....	67	50	57	40	47	30	38	22	32	20	21	20	19	20
500.....	70	50	60	40	50	30	40	25	34	23	23	20	21½	20

TABLE 149.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE DETROIT, LANSING AND NORTHERN RAILROAD FROM DETROIT, MICH., TO STATIONS NAMED DURING THE YEARS 1887 AND 1893.

Dis- tance.	From Detroit, Mich., to—	Date.	Classes (rates in cents per 100 pounds)					
			1.	2.	3.	4.	5.	6.
<i>Miles.</i>								
52	Howell, Mich.....	1887—Prior to Apr. 4.....	22	19	15	12	10	8
		After Apr. 4.....	20	16	13	10	8	6½
		1893.....	14½	12½	10½	9½	7½	6
85	Lansing, Mich.....	1887—Prior to Apr. 4.....	30	25	20	15	11	9
		After Apr. 4.....	23½	21	16	11½	10	8
		1893.....	19	16	13½	11	9	7
123	Ionia, Mich.....	1887—Prior to Apr. 4.....	40	30	20	15	12	10
		After Apr. 4.....	32	29	20	15	12	9
		1893.....	25	21	17	13	10½	8½
161	Howard City, Mich.....	1887—Prior to Apr. 4.....	42	33	24	17	12½	10
		After Apr. 4.....	35	29	22	16	12½	10
		1893.....	31	27	21	15	12½	10
191	Big Rapids, Mich.....	1887—Prior to Apr. 4.....	42	33	24	17	12½	10
		After Apr. 4.....	40	32	24	17	12½	10
		1893.....	35	30	23	16	12½	10

NOTE.—Rates prior to April 4, 1887, were governed by Middle and Western States classification; subsequent rates, by Official classification.

TABLE 150.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM FLINT, MICH., TO POINTS NAMED DURING 1882, 1887, AND 1893.

[During 1882 rates were governed by a local classification; during 1887 by the Middle and Western States classification, and during 1893 by Official classification.]

Dis- tance.	From Flint, Mich., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.*	1887.	1893.
Miles.																			
224	Ainsworth, Ind	59	40	33	49	30	29	39	20	21½	32	15	15	...	12	12	23	10	10
194	Kingsbury, Ind	57	40	30	47	30	27	37	20	20	30	15	14½	...	12	12	22	10	10
156	Edwardsburg, Mich.....	53	40	26½	43	30	24	33	20	18	27	15	13	...	12	11	20	10	9
138	Wakelee, Mich	51	40	24½	41	30	22	31	20	16½	25	15	12	...	15	10½	19	12	9
104	Climax, Mich.....	45	40	20	36	30	18	28	20	14	21	15	10½	...	12	9	17	10	7½
21	Bancroft, Mich.....	22	22	7½	18	18	7½	14	14	7½	10	10	7	...	8	5½	9	6	4
8	Otterburn, Mich	13	13	7	12	12	7	11	11	7	7	7	6	...	5	4½	6	4	3½
48	Emmet, Mich	34	25	11½	25	20	10½	19	15	9½	15	12	8	...	10	6½	12	8	5½

* Rates under head of 6th class for 1882 applied on grain and flour in carloads.

TABLE 151.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING 1882, 1887, AND 1893.

[Rates prior to April 5, 1887, were subject to Middle and Western States classification, and subsequently to Official classification.]

Dis- tance.	From Chicago, Ill., to—	Classes (rates in cents per 100 pounds).								
		1.			2.			3.		
		1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.
<i>Miles.</i>										
55	Ainsworth, Ind	10	10	9½	9	9	9	8	8	8½
75	Kingsbury, Ind	23	18	16	22	16	13	18	13	12
113	Edwardsburg, Mich	29	29	20	25	25	18	20	20	14
131	Wakelee, Mich	35	35	24	28	28	21½	23	23	16½
165	Climax, Mich	38	38	27	30	30	24	25	25	18
248	Bancroft, Mich	45	45	33	35	30	30	30	28	22
263	Otterburn, Mich	42	40	33	40	35	30	30	28	23
317	Emmet, Mich	50	45	33	40	35	30	30	30	23

TABLE 152.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM CHARLOTTE, MICH., TO STATIONS NAMED DURING 1882, 1886, AND 1893.

[During 1882 rates were governed by a local classification; during 1886 by the Middle and Western States classification, and during 1893 by Official classification.]

Dis- tance.	From Charlotte, Mich., to—	Classes (rates in cents per 100 pounds).								
		1.			2.			3.		
		1882.	1886.	1893.	1882.	1886.	1893.	1882.	1886.	1893.
<i>Miles.</i>										
156	Ainsworth, Ind	53	40	26½	43	30	24	33	20	18
126	Kingsbury, Ind	50	40	23½	40	30	21	30	20	16
83	Edwardsburg, Mich	42	36	18	33	28	16	26	20	13
70	Wakelee, Mich	39	36	15½	30	28	14	24	20	11½
36	Climax, Mich	30	30	9½	23	23	9	17	17	8
47	Bancroft, Mich	34	34	11½	25	25	10½	19	19	9½
62	Otterburn, Mich	37	35	14	28	28	12½	22	20	10½
116	Emmet, Mich	47	35	21½	38	30	19	29	20	15

* Rates under head of 6th class for 1882 applied on grain and flour in car loads.

TABLE 153.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM PORT HURON, MICH., TO STATIONS NAMED DURING 1881, 1887, AND 1893.

[Rates prior to April 5, 1887, were subject to Middle and Western States classification, and subsequently to Official classification.]

Dis- tance.	From Port Huron, Mich., to—	Classes (rates in cents per 100 pounds).								
		1.			2.			3.		
		1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.
<i>Miles.</i>										
290	Ainsworth, Ind	52	40	33	42	30	30	36	20	23
260	Kingsbury, Ind	45	40	33	35	30	30	25	20	23
222	Edwardsburg, Mich	40	40	26½	30	30	24	20	20	18
204	Wakelee, Mich	41	40	26½	32	30	24	25	23	18
170	Climax, Mich	40	35	25	31	28	22½	25	22	17
87	Bancroft, Mich	30	30	18	22	22	16	17	17	13
72	Otterburn, Mich	26	26	15½	21	21	14	16	16	11½
18	Emmet, Mich	18	18	7½	15	15	7½	12	12	7½

TABLE 154.—LOCAL FREIGHT RATES CHARGED FOR VARIOUS DISTANCES BY THE LAKE ERIE AND WESTERN RAILROAD DURING 1886 AND 1893.

[1886, Local classification; 1893, Official classification]

Distance.	Classes (rates in cents per 100 pounds).											
	1.		2.		3.		4.		5.		6.	
	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
10 miles.....	16	10	14	9	12	7	9	5½	7	4	2½	3½
25 miles.....	19	13	17	12	15	8	11	6	7	5	5	4½
50 miles.....	27	16½	22	14½	18	10½	15	8	9	6½	7	5½
100 miles.....	36	21	31	19	26	15	20	11	14	9	9	7½
200 miles.....	54	31	44	29	36	23	28	15	21	12½	13½	9
300 miles.....	65	36	55	33	45	24	35	17	26	14	18½	11
400 miles.....	77	40	67	36	53	25½	41	18	31	15	22	12

TABLE 155.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CLEVELAND, CINCINNATI, CHICAGO AND ST. LOUIS RAILWAY FROM CINCINNATI TO STATIONS NAMED DURING 1886 AND 1893.

Dis- tance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
<i>Miles.</i>													
22.3	Mands, Ohio.....	15	7½	12	7½	9	7½	8	7	7	5½	5	4½
48.8	Carrollton, Ohio.....	20	12	17	11½	12	11	10	9	8	7½	6	6
87.3	Moorefield, Ohio.....	29	25	24	22	17	20	14	13	11	9	8	8
113.2	Marysfield, Ohio.....	40	25	30	22	20	20	15	13	12	9	8	8
	White Sulphur, Ohio.....	41	25	31	22	21	20	16	13	13	9	8	8
146.7	Cardington, Ohio.....	44	28	35	24	25	21	18	13½	15	10	9	8½
158.5	St. James, Ohio (Iberia).....	45	28	36	24	25	21	18	13½	16	10	9	8½

TABLE 156.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CLEVELAND, CINCINNATI, CHICAGO, AND ST. LOUIS RAILWAY FROM CLEVELAND, OHIO, TO STATIONS NAMED DURING 1886 AND 1893.

Dis- tance.	From Cleveland, Ohio, to—	Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
<i>Miles.</i>													
	North Eaton, Ohio.....	15	7½	11	7½	8	7	7	6½	7	6	5	5
	Rochester, Ohio.....	19	15½	16	14	11	13	10	10	7	7½	6	6
	Shiloh, Ohio.....	24	16½	20	14	15	13	13	10	9	7½	7	6
110.6	Agosta, Ohio.....	38	25	29	22	20	17	15	13	11	9	8	8
150.0	De Graff, Ohio.....	44	31	35	26	25	22	18	14	15	11	9	9
	Houston, Ohio.....	45	31	36	26	26	22	19	14	18	11	9	9
215.6	Farmland, Ind.....	48	33	38	30	30	23	22	15	19	13	11	10
255.0	Pendleton, Ind.....	50	35	40	32	33	24	24	16	20	13	11	11

TABLE 157.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE OHIO AND MISSISSIPPI RAILWAY FROM CINCINNATI, OHIO, TO STATIONS NAMED DURING YEARS 1876, 1887, AND 1893.

[Governed by Official classification.]

Dis- tance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).								
		1.			2.			3.		
		1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.
<i>Miles.</i>										
52	Osgood, Ind	20	24	24	18	22	22	15	19	19
73	North Vernon, Ind	20	24	24	16	22	22	13	19	19
98	Lexington, Ind	43	24	24	35	22	22	30	19	19
130	Louisville, Ky	25	25	25	20	22	20	15	20	15
106	Medora, Ind	44	25	25	36	22	22	31	20	20
127	Mitchell, Ind	32	25	25	25	22	22	18	20	20
158	Loogootee, Ind	45	31	31	40	26	26	30	22	22
173	Washington, Ind	55	31	31	45	26	26	37	22	22
192	Vincennes, Ind	40	31	31	30	26	26	20	22	22
223	Olney, Ill	50	33	33	40	30	30	27	23	23
245	Flora, Ill	70	40	40	55	34	34	45	25	25
270	Salem, Ill	73	40	40	58	34	34	48	25	25
293	Carlyle, Ill	74	40	40	59	34	34	49	25	25
316	Lebanon, Ill	75	40	40	60	34	34	50	25	25
341	East St. Louis, Ill	50	40	40	40	34	34	27	25	25

TABLE 158.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE OHIO AND MISSISSIPPI RAILWAY FROM EAST ST. LOUIS, ILL., TO STATIONS NAMED DURING YEARS 1876, 1887, AND 1893.

[Governed by Official classification.]

Dis- tance.	From East St. Louis, Ill., to—	Classes (rates in cents per 100 pounds).								
		1.			2.			3.		
		1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.
<i>Miles.</i>										
48	Carlyle, Ill	31	21	21	25	19	19	21	17	17
96	Flora, Ill	40	24	24	32	22	22	26	19	19
118	Olney, Ill	45	25	25	35	22	22	28	20	20
149	Vincennes, Ind	40	31	31	30	26	26	20	22	22
191	Shoals, Ind	59	31	31	49	26	26	40	22	22
214	Mitchell, Ind	50	33	33	40	30	30	23	23	20
268	North Vernon, Ind	50	40	40	40	34	34	30	25	20
289	Osgood, Ind	74	40	40	59	34	34	49	25	25
341	Cincinnati, Ohio	50	40	40	40	34	34	30	25	20
293	Lexington, Ind	74	40	40	59	34	34	49	25	25
325	Louisville, Ky	53	40	40	43	34	34	33	25	23

TABLE 159.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY WABASH RAILROAD FROM CHICAGO TO STATIONS NAMED DURING YEARS 1882, 1887, AND 1893.

[Subject to Western classification.]

Dis- tance.	From Chicago, Ill., to—	Year.	Classes (rates in cents per 100 pounds).								
			1.	2.	3.	4.	5.	A.	B.	C.	D.
<i>Miles.</i>											
549	Belknap, Ia	1882	70	60	50	40	.....	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10
544	Bloomfield, Ia	1882	70	60	50	40	30	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10
617	Burlington Junction, Mo....	1882	101	83	65	40	.....	38	38	29	27
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
497	Carrollton, Mo.....	1882	82	67	50	32	29	32	29	24	22
		1887	85	70	50	35	30	35	30	25	20
		1893	60	50	35	25	18	25	20	15	14
410	Centralia, Mo	1882	73	61	49	26	24	26.5	23.5	21	17.5
		1887	73	61	49	26	26	26.5	23.5	21	17.5
		1893	60	50	35	25	18	24	20	15	12.5
511	Chillicothe, Mo.....	1882	75	66	48	30	.....	35	29	19	19
		1887	75	65	48	30	30	35	29	19	19
		1893	60	50	35	25	18	25	20	15	14
636	Cain, Ia	1882	102	85	70	45	40	45	40	35	30
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
490	Cunningham, Mo.....	1882	80	65	50	31	.....	31	28	23	21
		1887	85	70	50	35	30	35	30	25	20
		1893	60	50	35	25	18	25	20	15	14
572	Darlington, Mo.....	1882	90	75	55	35	30	35	30	25	20
		1887	90	75	55	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
537	Gallatin, Mo.....	1882	85	70	45	30	30	35	30	25	.....
		1887	90	75	50	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
	Glasgow, Mo	1882	75	62	50	30	30	30	27	24.5	21
		1887	75	62	50	30	30	30	27	24.5	21
		1893	60	50	35	25	18	25	20	15	14
516	Glenwood and Glenwood J..	1882	73	58	48	33	28	33	28	23	20
		1887	75	60	50	35	30	35	30	25	20
		1892	40	30	22	17	12.5	17	15	12	10
491	Kirksville, Mo	1882	75	60	50	35	30	25	30	25	20
		1887	75	60	50	35	30	35	30	25	20
		1893	60	50	35	25	18	24	20	15	13
	Lathrop, Mo	1882	85	70	45	30	.....	37.5	30	20	.....
		1887	90	75	50	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
456	Macon, Mo	1882	60	54	38	25	.....	27.5	22.5	15	.....
		1887	60	54	38	25	25	27.5	22.5	15.5	15.5
		1893	60	50	35	25	18	24	20	15	13
671	Malvern, Iowa	1882	104	84	60	45	.....	40	36	31	28
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
604	Maryville, Mo	1882	94	81	65	32	.....	33	33	30	25.75
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
398	Mexico, Mo	1882	70	60	46	25	.....	25	22	19.5	17
		1887	70	60	46	25	25	25	22	19.5	17
		1893	60	50	35	25	18	24	20	15	12.5
434	Moberly, Mo	1882	75	60	50	35	.....	35	30	20	.....
		1887	75	60	45	30	27	30	25	20	18
		1893	60	50	35	25	18	24	20	15	12.5
530	Moulton, Iowa	1882	70	60	50	40	.....	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10
565	Ottumwa, Iowa	1882	70	60	50	29	.....	34	29	24	24
		1887	68	55	40	27.5	22.5	27.5	22.5	20	15
		1893	40	30	22	17	12.5	17	15	12	10
	Plattsburg, Mo.....	1882	85	70	45	30	.....	35	30	25	.....
		1887	90	75	50	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
616	Roseberry, Mo	1882	101	83	58	44	.....	47	42	35	30
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
318	St. Peters, Mo.....	1882	62	50	39	25	23	25	22	20	15
		1887	60	50	40	25	20	25	20	17	15
		1893	60	50	35	25	18	24	20	15	12.5
649	Shenandoah, Iowa.....	1882	102	83	59	44	.....	40	35	30	27
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
537	West Grove, Iowa.....	1882	70	60	50	40	.....	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10

TABLE 160.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE WABASH RAILROAD FROM TOLEDO, OHIO, TO STATIONS NAMED DURING 1876, 1882, 1887, AND 1893.

[Rates in effect prior to April, 1887, were governed by Middle and Western States classification; subsequent rates by Official classification.]

Distance. Miles.	From Toledo, Ohio, to—	Classes (rates in cents per 100 pounds).															
		1.				2.				3.				4.			
		1876.	1882.	1887.	1893.	1876.	1882.	1887.	1893.	1876.	1882.	1887.	1893.	1876.	1882.	1887.	1893.
50	Defiance, Ohio.....	24 16	16 12	20 13	13 11	16 10	10 10	12 7	7 8	6 6	7 7	5 5	6 6	11 1	9 1	11 1	9 1
94	Fort Wayne, Ind.....	32 20	20 20	27 15	16 18	25 12	12 14	17 10	10 11	8 8	9 9	7 7	6 7	15 1	12 1	15 1	12 1
118	Huntington, Ind.....	37 24	24 25	32 20	20 22	24 15	15 19	19 11	11 12	9 9	10 10	8 8	6 7	16 1	14 1	16 1	14 1
137	Wabash, Ind.....	40 28	28 27	34 23	23 24	27 18	18 19	21 13	13 13	11 10	10 9	9 9	7 7	17 1	15 1	17 1	15 1
166	Logansport, Ind.....	45 28	30 30	38 23	24 27	30 18	17 21	24 13	13 14	11 9	10 9	9 6	8 8	19 1	17 1	19 1	17 1
249	Danville, Ill.....	55 40	59 37	48 30	45 32	28 25	35 25	30 20	25 16	16 18	12 13	13 14	12 13	25 2	22 2	25 2	22 2
287	Champaign, Ill.....	.. 50	69 38	.. 40	47 33	.. 30	35 26	.. 25	25 18	22 21	14 20	17 13	.. ..	.. ..	.. ..	.. ..	.. ..
285	Tolono, Ill.....	61 50	63 38	53 40	47 33	41 30	35 26	33 25	25 18	20 18	14 16	15 13	26 1	23 1	26 1	23 1	23 1
323	Decatur, Ill.....	66 55	63 39	57 45	47 34	45 35	35 26	36 30	25 18	22 19	15 19	15 13	27 1	25 1	27 1	25 1	25 1
361	Springfield, Ill.....	71 60	63 40	62 50	47 36	49 40	35 26	40 28	25 18	22 19	15 20	15 13	30 1	27 1	30 1	27 1	27 1
395	Jacksonville, Ill.....	75 60	63 40	66 50	47 36	52 40	35 27	42 30	25 19	23 19	15 21	15 13	32 1	30 1	32 1	30 1	30 1
461	East Hannibal, Ill.....	85 ..	46 47	74 ..	35 42	59 ..	25 31	48 ..	17 22	.. 13	20 ..	10 16	36 1	34 1	36 1	34 1	34 1
433	East St. Louis, Ill.....	80 50	46 41	70 45	35 37	55 35	25 27	45 23	17 19	19 13	17 17	10 14	35 1	32 1	35 1	32 1	32 1

TABLE 161.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE TERRE HAUTE AND INDIANAPOLIS RAILROAD FROM INDIANAPOLIS TO STATIONS NAMED DURING 1883 AND 1893.

Dis- tance. Miles.	From Indianapolis, Ind., to—	Commodities (rates in cents per 100 pounds).											
		Alcohol.				Apples, dried.				Fertilizers.			
		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.	
		1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.
38	Greencastle, Ind.....	19	18	11.2	9.5	19	15	11.2	9.5	14	9.5	5.65	6.5
72	Terre Haute, Ind.....	25	22	14.4	11.5	25	18	14	11.5	17.5	11.5	7	7
80	Farrington, Ill.....	25.3	23	14.4	11.5	25.3	19.5	14.4	11.5	18	11.5	7.2	7.5
90	Marshall, Ill.....	25.9	23	15.2	11.5	25.9	19.5	15.2	11.5	19	11.5	7.55	7.5
108	Casey, Ill.....	27.1	24	16.64	12	27.1	20	16.64	12	20.8	12	8.2	8
117	Greenup, Ill.....	27.7	26	17.28	12.5	27.7	21	17.28	12.5	21.6	12.5	8.55	8.5
140	Effingham, Ill.....	28.9	26	18.56	13	28.9	22	18.56	13	23.2	13	9.2	9
152	Altamont, Ill.....	29.8	28	19.36	14	29.8	22	19.36	14	24.2	14	9.6	9
171	Vandalia, Ill.....	31	28.5	20	14	31	22.5	20	14	25	14	10	9.5
185	Smithboro, Ill.....	31.6	30	20.32	14	31.6	23	20.32	14	25.4	14	10.2	9.5
238	East St. Louis, Ill.....	34.5	32	22.08	15	34.5	24	22.08	15	27.6	15	11.55	10

Dis- tance. Miles.	From Indianapolis, Ind., to—	Commodities (rates in cents per 100 pounds).															
		Glassware.				Horse and mule shoes.				Iron fencing.				Oranges and lemons.			
		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.	
		1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893
38	Greencastle, Ind.....	23	18	14	15	14	9.5	7.35	7.5	23	15	9.45	7.5	28	18	19	15
72	Terre Haute, Ind.....	30	22	17.5	18	17.5	11.5	8.8	9	30	18	11.75	9	36	22	25	18
80	Farrington, Ill.....	31	23	18	19.5	18	11.5	9	9	31	19.5	12	9	37	23	25.3	19.5
90	Marshall, Ill.....	32	23	19	19.5	19	11.5	9.4	9	32	19.5	12.4	9	39	23	25.9	19.5
108	Casey, Ill.....	34	24	20.8	20	20.8	12	10.25	10	34	20	13.2	10	43	24	27.1	20
117	Greenup, Ill.....	35	26	21.6	21	21.6	12.5	10.7	10.5	35	21	13.6	10.5	45	26	27.7	21
140	Effingham, Ill.....	37	26	23.2	22	23.2	13	11.55	11	37	22	14.4	11	47	26	28.9	22
152	Altamont, Ill.....	38.4	28	24.2	22	24.2	14	12	11	38.4	22	14.8	11	48.5	28	29.8	22
171	Vandalia, Ill.....	40	28.5	25	22.5	25	14	12.6	11.5	40	22.5	15.2	11.5	50.2	28.5	31	22.5
185	Smithboro, Ill.....	40.8	30	25.4	23	25.4	14	12.9	11.5	40.8	23	15.4	11.5	51	30	31.6	23
238	East St. Louis, Ill.....	44.4	32	27.6	24	27.6	15	14.5	12	44.4	24	16.6	12	54.8	32	34.5	24

TABLE 161.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE TERRE HAUTE AND INDIANAPOLIS RAILROAD, ETC.—Continued.

Dis- tance.	From Indianapolis, Ind., to—	Commodities (rates in cents per 100 pounds).															
		Poultry, dressed.				Seeds, garden.				Binding twine.				Zinc, pigs and slabs.			
		Less than car- loads.		Car- loads.		Less than car- loads.		Car- loads.		Less than car- loads.		Car- loads.		Less than car- loads.		Carloads.	
		1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893
<i>Miles.</i>																	
38	Greencastle, Ind	28	20	14	20	28	18	14	7.5	23	15	14	9.5	14	9.5	11.2	6.5
72	Terre Haute, Ind	36	24.5	17.5	24.5	36	22	17.5	9	30	18	17.5	11.5	17.5	11.5	14	7
80	Farrington, Ill	37	25	18	25	37	23	18	9	31	19.5	18	11.5	18	11.5	14.4	7.5
90	Marshall, Ill	39	25	19	25	39	23	19	9	32	19.5	19	11.5	19	11.5	15.2	7.5
108	Casey, Ill	43	26	20.8	26	43	24	20.8	10	34	20	20.8	12	20.8	12	16.64	8
117	Greenup, Ill	45	29	21.6	29	45	26	21.6	10.5	35	21	21.6	12.5	21.6	12.5	17.28	8.5
140	Effingham, Ill	47	29	23.2	29	47	26	23.2	11	37	22	23.2	13	23.2	13	18.56	9
152	Altamont, Ill	48.5	31	24.2	31	48.5	28	24.2	11	38.4	22	24.2	14	24.2	14	19.36	9
171	Vandalia, Ill	50.2	31	25	31	50.2	28.5	25	11.5	40	22.5	25	14	25	14	20	9.5
185	Smithboro, Ill	51	33	25.4	33	51	30	25.4	11.5	40.8	23	25.4	14	25.4	14	20.32	9.5
238	East St. Louis, Ill	54.8	35	27.6	35	54.8	32	27.6	12	44.4	24	27.6	15	27.6	15	22.08	10

TABLE 162.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CENTRAL IOWA RAILWAY FROM PEORIA, ILL., TO POINTS NAMED DURING YEARS 1886 AND 1893.

[Governed by Western classification.]

Dis- tance.	From Peoria, Ill., to—	Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
<i>Miles.</i>																					
335	Mason City, Iowa.	73	50	63	40	50	35	36	22	27½	17	31	21	28	16	21	14½	18	11½	...	11
247	Marshalltown, Iowa	66	50	53	40	40	33	26	22	23½	17	26	21	23½	16	21	13½	16	11½	...	10
190	Oskaloosa, Iowa...	61	50	48	40	35	33	23½	22	21	17	23½	21	21	16	16	13½	11	11½	...	10
109	Morning Sun, Iowa	44	37	37	28	31	24	23	17	21	12	22½	11	18½	10	15	9½	11	8½	...	7

TABLE 163.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE BURLINGTON, CEDAR RAPIDS AND NORTHERN RAILROAD BETWEEN CHICAGO, ILL. AND STATIONS NAMED, DURING 1886 AND 1893.

[Subject to Western classification.]

Dis- tance.	From Chicago, Ill., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
215	Latty, Iowa.....	1886	50	40	34	25	24	24	20	17	15	....
		1893	47	38	29	20	15	15	14	12	11	9
229	Morning Sun, Iowa.....	1886	53	44	36	27	25	26	22	19	15	....
		1893	47	38	29	20	15	15	14	12	11	9
261	Nichols, Iowa.....	1886	65	54	44	29	26	27	23	20	16	....
		1893	53	44	32	22	16	19	16	13	12	10
281	Elmira, Iowa.....	1886	73	58	48	36	27	32	27	23	20	....
		1893	55	45	33	23	16	20	16	14	13	11
295	Ely, Iowa.....	1886	74	60	50	37	27	32	27	25	20	....
		1893	55	45	33	23	18	23	18	15	13	11
327	Vinton, Iowa.....	1886	68	57	45	32	26	31	27	21	20	....
		1893	57	47	35	24	18	24	18	15	13	11
357	Waterloo, Iowa.....	1886	72	59	48	33	28	32	28	22	20	....
		1893	60	50	38	25	20	25	20	16	14	12
362	Cedar Falls, Iowa.....	1886	73	60	48	33	28	33	28	22	20	....
		1893	60	50	38	25	20	25	20	16	14	12
385	Clarksville, Iowa.....	1886	76	62	49	35	29	34	29	23	20	....
		1893	60	50	38	25	20	25	20	16	14	12
417	Nora Junction, Iowa.....	1886	82	68	55	40	31½	38	32	25	23	....
		1893	60	50	40	25	20	25	20	17	14	13
431	Manly Junction, Iowa.....	1886	84	72	57	41	31½	40	32	25	23	....
		1893	60	50	40	25	20	25	20	17	14	13
447	Gordonsville, Minn.....	1886	93	78	64	44	34	40	33	25	23	....
		1893	60	50	40	25	20	25	20	17	14	13
459	Albert Lea, Minn.....	1886	95	80	65	44	35	38	33	25	22½	....
		1893	60	50	40	25	20	25	20	17	14	13

TABLE 164.—COMPARISON OF LOCAL FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE CHICAGO, MILWAUKEE AND ST. PAUL RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING YEARS 1883 AND 1893.

[Governed by Western classification.]

Dis- tance.	From Chicago, Ill., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
228	Marion, Iowa.....	1883	70	55	45	35	27½	32½	27½	25	20	....
		1893	55	45	33	23	18	23	18	15	13	11
282	Tama, Iowa.....	1883	75	60	45	35	30	35	30	25	20	....
		1893	58	48	37	24	19	24	18	15	13	12
309	Melbourne, Iowa.....	1883	75	60	45	35	30	35	30	25	20	....
		1893	62	52	38	26	21	26	21	17	15	13
365	Perry, Iowa.....	1883	77	62	47	37	32	37	32	26	20	....
		1893	66	56	39	28	23	28	23	19	16	14
417	Manning, Iowa.....	1883	87	70	56	40	35	40	35	30	24	....
		1893	75	60	42	30	25	30	25	20	17½	16
487	Council Bluffs, Iowa.....	1883	90	75	50	32	28	37½	32	23	23	....
		1893	75	60	42	30	25	30	25	20	17½	16

TABLE 165.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GREAT WESTERN RAILWAY BETWEEN CHICAGO, ILL., AND POINTS NAMED DURING 1886 AND 1893.

[1886 Joint Western classification, 1893 Western classification.]

Dis- tance.	Between Chicago, Ill., and—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
345	Hayfield, Minn	1886	75	60	45	33	25	30	25	22	18	....
		1893	60	50	40	25	20	25	20	17	14	13
354	Dodge City, Minn.....	1886	70	55	40	30	23	28	24	21	17½	....
		1893	60	50	40	25	20	35	20	17	14	13
363	West Concord, Minn.....	1886	70	55	40	30	23	27	23	20	17½	....
		1893	60	50	40	25	20	25	20	17	14	13
373	Kenyon, Minn.....	1886	70	55	40	30	23	27	23	20	17½	....
		1893	60	50	40	25	20	25	20	17	14	13
379	Nerstrand, Minn.....	1886	70	55	40	30	23	27	23	20	17½	....
		1893	60	50	40	25	20	25	20	17	14	13
393	Randolph, Minn	1886	70	55	40	30	23	27	23	20	17½	....
		1893	60	50	40	25	20	25	20	17	14	13
399	Hampton, Minn.....	1886	71	53	36	29	23	27	23	20	16	....
		1893	60	50	40	25	20	25	20	17	14	13
403	Empire, Minn.....	1886	71	53	36	29	23	27	23	20	16	....
		1893	60	50	40	25	20	25	20	17	14	13
410	Rich Valley, Minn.....	1886	67	50	33	26	21	25	20	18	15	....
		1893	60	50	40	25	20	25	20	17	14	13
418	Invergrove, Minn.....	1886	64	46	30	24	20	25	20	18	15	....
		1893	60	50	40	25	20	25	20	17	14	13
373	Lyle, Minn	1886	82	70	54	40	31	36	30	26	20	....
		1893	60	50	40	25	20	25	20	17	14	13
368	Varco, Minn	1886	82	75	54	40	30	36	30	25	20	....
		1893	60	50	40	25	20	25	20	17	14	13
362	Austin, Minn	1886	80	65	50	35	27	30	28	25	20	....
		1893	60	50	40	25	20	25	20	17	14	13
355	Red Rock, Minn	1886	80	65	50	35	27	30	28	25	20	....
		1893	60	50	40	25	20	25	20	17	14	13
350	Waltham, Minn	1886	75	60	45	33	25	30	25	22	18	....
		1893	60	50	40	25	20	25	20	17	14	13

TABLE 166.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE WISCONSIN CENTRAL RAILROAD BETWEEN CHICAGO AND POINTS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

Dis- tance.	Between Chicago, Ill., and—	Classes (rates in cents per 100 pounds).															
		1.	2.	3.	4.	5.	A.	B.	C.	Salt.	Cement, stucco, and plaster.	Lumber, lath, and shingles.	Cattle.	Hogs and sheep.			
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
<i>Miles.</i>																	
86	Mukwonago, Wis.	28	25	24	20	18	15	14	12	10	8	10	10	8½	7	7½	6
221	Waupaca, Wis ..	59	50	51	42	43	33	32	23	25	18	23½	23	19	18	18	15
250	Stevens Point, Wis	63	50	55	42	44	33	34	23	25	18	26½	23	21½	18	19	15
281	Marshfield, Wis ..	72	58	62	48	54	37	41	23	30	18	31½	23	24½	18	22	16
317	Medford, Wis	79	60	67	50	58	40	45	25	33	20	35½	25	28	20	23½	17
358	Phillips, Wis	86	62	74	52	63	42	50	26	40	20	38	26	31½	20	25½	17
402	Glenwood, Wis ...	80	60	70	50	60	40	45	25	30	20	35	25	30	20	25	17

TABLE 167.—COMPARISON OF CLASS RATES FROM MILWAUKEE, WIS., TO LOCAL STATIONS ON THE MILWAUKEE AND NORTHERN RAILROAD DURING 1882 AND 1893.

[Subject to Western classification.]

Dis- tance.	From Milwaukee, Wis., to—	Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.
Miles.																					
18	Thiensville, Wis	12	12	11	10	9	9	8	8	6	6	5	5	3½	4	3	3½	...	3	...	3
25	Grafton, Wis	15	15	13	13	11	11	9	9	7	7	6	6	5	5	4½	4½	...	4	...	3
36	Fredonia, Wis	18	18	13	16	13	13	11	11	9	9	7½	7½	6	6	5	5	...	4½	...	4
55	Plymouth, Wis	22	22	20	17½	17	15	13	13	11	10	10	10	8	8	7	7	...	6	...	5
68	Kiel, Wis	28	28	25	22½	20	20	15	16	12	11½	11	11½	9	9	8	8	...	7	...	6
77	Hayton, Wis	32	32	27	27	22	22	17	16	14	12½	12½	14½	10	10	9½	9½	...	8	...	6
86	Hilbert, Wis	32	33	27	28	22	23	17	16	14	12½	14	14	11	11	9½	9½	...	8	...	6
106	Appleton, Wis	35	35	30	30	24	24	20	16	16	12½	16	14	12	12	10	9½	...	8	...	6
99	Greenleaf, Wis	35	35	30	30	24	24	20	16	16	12½	16	14	12	12	10	9½	...	8	...	6
124	Tremble, Wis	45	37	37	32	30	25	26	18	21	13½	21	15	16	14	14½	12	...	9	...	7
139	Stiles, Wis	53	40	43	33	35	25	29	20	23	15	25	17½	18	15	16	12½	...	10	...	8

TABLE 168.—COMPARISON OF CLASS RATES FROM CHICAGO, ILL., TO LOCAL STATIONS ON THE MILWAUKEE AND NORTHERN RAILROAD DURING 1882 AND 1893.

[Subject to Western classification.]

Dis- tance.	From Chicago, Ill., to—	Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.
Miles.																					
103	Thiensville, Wis	27	27	23	23	19	19	15	15	12	12	10	11	8½	8½	8	8	...	7½	...	6
110	Grafton, Wis	30	30	25	25	21	21	16	16	13	12½	11	12	9½	9½	9	9	...	8	...	6
121	Fredonia, Wis.....	33	33	28	27	23	23	18	18	15	12½	12½	12½	11	11	10	10	...	9	...	7
140	Plymouth, Wis.....	37	37	30	30	25	25	20	20	16	12½	14	14	12	12	11	11	...	10	...	8
153	Kiel, Wis.....	40	40	32	32	27	27	22	20	18	13	15½	16	13	13	12½	12½	...	10	...	8
162	Hayton, Wis	43	43	36	36	29	29	24	20	19	14	17	17½	14	14	13½	12½	...	10	...	8
171	Hilbert, Wis	43	43	36	36	29	29	24	20	19	15	18	17½	15	15	13½	12½	...	10	...	8
191	Appleton, Wis	43	43	36	36	29	29	24	20	19	15	20	17½	16	15	14	12½	...	10	...	8
184	Greenleaf, Wis	43	43	36	36	29	29	24	20	19	15	20	17½	16	15	14	12½	...	10	...	8
209	Tremble, Wis	48	43	39	36	33	29	27	22	22	15	23½	18	19½	15½	17	14	...	11	...	8½
224	Stiles, Wis	53	43	43	36	35	29	29	23	23	17	26	20	21½	17	19	15	...	12	...	11½

TABLE 169.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE RAILWAY DURING 1886 AND 1893.

[1886, Local classification. 1893, Western classification.]

Miles.		Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
	From Minneapolis, Minn., to—																				
82.5	Paynesville, Minn....	58	45	47	38	37	29	30	23	...	18	...	18	...	16	...	14	...	11	...	9
120.4	Glenwood, Minn....	62	52	54	44	44	34	36	26	...	21	...	21	...	18	...	16	...	13	...	10
	From St. Paul, Minn., to—																				
217	Rhineland, Wis ...	77	52	66	43	55	33	45	21	35	15	...	21	...	15	...	13	...	11	...	10

TABLE 170.—RATES CHARGED FOR THE TRANSPORTATION OF WHEAT, FLOUR, MILL-STUFFS, CORN, AND OATS FROM POINTS ON THE NORTHERN PACIFIC RAILROAD TO ST. PAUL, AND DULUTH, MINN., FROM AUGUST 5, 1881, TO THE PRESENT TIME.

Distance to St. Paul.	To St. Paul and Duluth from—	Rates in cents per 100 pounds, carloads.													
		Aug. 5, 1881.	Sept. 1, 1882.	Aug. 25, 1883.	Aug. 15, 1884.	Aug. 5, 1885.	Apr. 1, 1886.	Aug. 1, 1886.	Jan. 15, 1887.	Apr. 5, 1887.	Aug. 25, 1887.	Sept. 20, 1888.	Oct. 22, 1888.	Aug. 25, 1890.	Sept. 15, 1892.
Miles.															
	Fergus Falls, Minn	25	23	23	21	21	20	17	17	16½	15	15	15	15	15
251	Fargo, N. Dak.....	25	25	25	23	23	23	20	20	20	18	18	16	16	15½
344	Jamestown, N. Dak.....	30	30	30	28	27	25	24	24	24	22	22	22	22	20
445	Bismarck, N. Dak.....	33	33	33	30	30	30	30	30	30	27	27	27	27	24
95	Grand Forks, N. Dak.....	.....	.....	.....	.....	.....	.....	.....	21	21	19	19	18	18	17
189	Pembina, N. Dak .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	19	19	18

TABLE 171.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NORTHERN PACIFIC RAILROAD BETWEEN THE POINTS NAMED DURING 1886 AND 1893.

Distance from St. Paul.	Between St. Paul, Min- neapolis, or Duluth and—	Classes (rates in cents per 100 pounds).																			
		1886, Northern classification.										1893, Western classification.									
		1.	2.	3.	4.	1. S.	2. S.	3. S.	4. S.	5. S.	6. S.	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.																					
138	Brainerd, Minn.....	70	60	50	40	18	36	54	16	30	15	49	42	32	25	20	20	17	15	12	10
204	Detroit, Minn.....	95	80	65	56	23	46	69	21	38	21	69	59	45	35	28	28	24	21	17	14
251	Fargo, N. Dak.....	100	85	70	60	23	46	69	22	42	25	80	68	52	40	32	32	28	24	20	16
344	Jamestown, N. Dak.....	130	115	100	80	28	56	84	30	50	40	95	81	62	48	38	38	33	29	24	19
445	Bismarck, N. Dak.....	160	145	130	100	40	80	120	41	65	50	120	102	84	72	60	48	42	36	30	24
560	Dickinson, N. Dak.....	206	180	159	133	58	116	174	52	84	61	142	115	96	85	74	64	55	50	44	36
666	Glendive, Mont.....	250	220	185	160	80	160	240	60	100	70	155	126	106	94	83	73	63	57	52	42
891	Billings, Mont.....	295	245	195	170	100	200	300	80	130	95	225	195	158	135	115	100	85	75	65	55

TABLE 172.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NORTHERN PACIFIC RAILROAD BETWEEN ST. PAUL, MINNEAPOLIS, AND DULUTH, MINN., AND STATIONS NAMED DURING 1887 AND 1893.

[Subject to Western classification.]

Distance from St. Paul.	Between St. Paul, Minneapo- lis, or Duluth, Minn., and—	Classes (rates in cents per 100 pounds).																		
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.
		1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1893.
Miles.																				
1,032	Bozeman, Mont.....	300	250	250	215	200	175	175	145	160	125	150	110	135	92	125	82	100	72	62
1,130	Helena, Mont.....	300	250	250	215	200	175	175	145	160	125	150	110	135	92	125	82	100	72	62
1,254	Missoula, Mont.....	325	260	275	225	225	185	200	155	180	135	170	120	155	102	135	87	110	77	67
1,356	Thompson Falls, Mont.....	380	295	319	253	253	208	220	172	200	152	185	141	168	134	145	114	118	92	79
1,427	Hope, Idaho.....	430	322	362	275	286	230	228	186	212	166	197	163	178	146	155	123	125	102	84

TABLE 173.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE UNION PACIFIC RAILWAY BETWEEN OMAHA AND KANSAS CITY AND POINTS NAMED DURING 1883, 1887, AND 1893.

[Subject to Western classification.]

Miles.		Classes (rates in cents per 100 pounds).														
		1.			2.			3.			4.			5.		
		1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.
<i>Miles.</i>	Between Omaha, Nebr., and—															
91	Columbus, Nebr.	41	41	35	37	37	30	32	32	27	30	30	21	30	30	16
153	Grand Island, Nebr.	67	62	51	59	54	45½	51	46	38	45	40	30	45	40	26
196	Kearney, Nebr.	72	72	60	64	64	56	56	56	47	50	50	40	50	50	34
569	Denver, Colo.	240	210	125	200	170	95	175	140	80	135	115	65	125	100	50
720	Leadville, Colo.	395	350	235	345	245	190	310	255	160	255	215	140	225	185	110
1,428	Butte, Mont.	300	300	250	250	250	215	200	200	175	175	175	145	.....	160	125
1,165	Pocatello, Idaho	340	317	250	305	264	215	265	211	175	225	164	145	220	158	125
	Between Kansas City, Mo., and—															
139	Junction City, Kans.	55	55	50	50	49	45½	45	43	37	40	36	28	35	32	24
186	Salina, Kans.	65	65	56	58	55	50	50	50	42½	45	43	34	42	38	29
420	Wallace, Kans.	126	92	89	114	84	80	101	77	72	86	71	60	84	66	54
639	Denver, Colo.	240	210	125	200	170	95	175	140	80	135	115	65	125	100	50
790	Leadville, Colo.	395	350	235	345	245	190	310	255	160	255	215	140	225	185	110
746	Cheyenne, Wyo.	200	210	125	170	170	95	155	140	80	135	115	65	125	100	50
938	Rawlins, Wyo.	263	257	220	228	218	180	210	200	154	160	155	129	160	150	104
1,656	Butte, Mont.	300	300	250	250	250	215	200	200	175	175	175	145	.....	160	125
1,259	Ogden, Utah.	315	300	250	265	250	215	210	200	175	160	155	145	.....	150	125
1,393	Pocatello, Idaho	340	317	250	305	264	215	265	211	175	225	164	145	220	158	125

Distance.		Classes (rates in cents per 100 pounds).														
		Class A.			Class B.			Class C.			Class D.			Class E.		
		1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.
<i>Miles.</i>	Between Omaha, Nebr., and—															
91	Columbus, Nebr.	22½	22½	14	19½	19½	13	15	15	12	15	15	8	.....	.....	5½
153	Grand Island, Nebr.	35	29½	25	25	20	18	22½	17½	15½	.....	17½	11	.....	.....	7½
196	Kearney, Nebr.	32½	32½	27½	22½	22½	19½	20	20	18	20	20	13	.....	.....	9
569	Denver, Colo.	100	100	55	75	75	45	65	65	40	50	50	35	.....	.....	30
720	Leadville, Colo.	195	180	115	160	145	100	118	115	90	103	95	70	.....	.....	65
1,428	Butte, Mont.	150	150	110	135	135	92	125	125	82	125	100	72	.....	.....	62
1,165	Pocatello, Idaho	245	158	110	175	142	92	150	116	82	125	84	72	.....	.....	62
	Between Kansas City, Mo., and—															
139	Junction City, Kans.	30	28	23	20	19	18	15	15	14	15	15	11	.....	.....	7½
186	Salina, Kans.	35	33	27	22	22	21	18	18	17	18	18	13	.....	.....	10
420	Wallace, Kans.	62	51	47	47	41	39	40	32	30	35	32	23	.....	.....	19
639	Denver, Colo.	100	100	55	75	75	45	65	65	40	50	50	35	.....	.....	30
790	Leadville, Colo.	195	180	115	160	145	100	118	115	90	103	95	70	.....	.....	65
746	Cheyenne, Wyo.	100	100	55	75	75	45	75	65	40	50	50	35	.....	.....	30
938	Rawlins, Wyo.	136	131	104	123	118	84	99	92	69	99	80	60	.....	.....	48
1,656	Butte, Mont.	150	150	110	135	135	92	125	125	82	125	100	72	.....	.....	62
1,259	Ogden, Utah.	180	150	110	145	135	92	115	110	82	83	80	72	.....	.....	62
1,393	Pocatello, Idaho	245	158	110	175	142	92	150	116	82	125	84	72	.....	.....	62

TABLE 174.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE FREMONT, ELKHORN AND MISSOURI VALLEY RAILROAD BETWEEN OMAHA, NEBR., AND STATIONS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

Dis- tance.	Between Omaha, Nebr., and—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
46	Kennard, Nebr.....	1886	28	26	23	20	20	15	14	13	11	.....
		1893	26	22	19	17	14	12	10	8	6	4
73	Nickerson, Nebr.....	1886	34	27	25	23	20	18	15	13	12	.....
		1893	29	26	22	17	13	13	11	9	7	4
100	West Point, Nebr.....	1886	55	48	41	36	36	28	24	22	19	.....
		1893	37	32	27	23	17	17	14	12	8	5
133	Stanton, Nebr.....	1886	65	55	48	40	38	28	25	22	19	.....
		1893	45	39	31	23	18	19	15	13	9	7½
155	Battle Creek, Nebr.....	1886	65	55	48	40	38	29	26	23	19	.....
		1893	48	42	32	24	19	20	15	13	10	7
219	O'Neill, Nebr.....	1886	84	71	55	50	46	43	38	32	26	.....
		1893	63	53	44	36	28	32	25	20	15	10½
277	Long Pine, Nebr.....	1886	100	80	70	60	55	51	42	37	29	.....
		1893	76	65	58	48	43	39	31	25	18	12½
333	Valentine, Nebr.....	1886	124	104	86	67	62	59	49	40	33	.....
		1893	84	76	66	55	51	44	36	28	22	15
438	Rushville, Nebr.....	1886	148	136	114	94	89	74	64	50	42	.....
		1893	99	91	81	69	63	56	43	36	28	20
470	Chadron, Nebr.....	1886	158	145	126	103	98	80	71	58	48	.....
		1893	110	99	89	75	69	61	46	38	30	21½

TABLE 175.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE ATCHISON, TOPEKA AND SANTA FE RAILROAD FROM KANSAS CITY, ST. LOUIS, AND CHICAGO TO STATIONS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

To—	From—	Dis- tance.	Classes (rates in cents per 100 pounds).											
			1.		2.		3.		4.		5.		A.	
			1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Topeka, Kans.	Kansas City, Mo.....	Miles. 66	30	29	25	24	20	19	15	15	12	37	12	10
	St. Louis, Mo.....	349	100	84	80	64	60	51	45	45	37	44½	37	27½
	Chicago, Ill.....	524	120	104	100	84	70	61	50	50	42	24½	42	35
Strong City, Kans. ...	Kansas City, Mo.....	134	58	51	48	43	43	36	35	35	32	19½	23	18
	St. Louis, Mo.....	417	128	106	103	83	83	68	65	65	57	44	53	35½
	Chicago, Ill.....	592	148	126	123	103	93	78	70	58	62	49	60½	43
Florence, Kans.	Kansas City, Mo.....	159	61	52	51	47	46	40	39	32	35	21	31	19
	St. Louis, Mo.....	442	131	107	106	87	86	72	69	57	60	43	56	36½
	Chicago, Ill.....	617	151	127	126	107	96	82	74	62	65	50½	63½	44
Newton, Kans.	Kansas City, Mo.....	187	65	58	55	52	50	45	43	36	38	23	33	22
	St. Louis, Mo.....	470	135	113	110	92	90	77	73	61	63	45	52	39½
	Chicago, Ill.....	645	155	133	130	112	100	87	78	66	68	52½	65½	47
Wichita, Kans.	Kansas City, Mo.....	214	73	66	64	58	58	50	49	41	43	25	38	24
	St. Louis, Mo.....	497	143	115	119	93	98	78	79	62½	68	52	63	39½
	Chicago, Ill.....	672	163	135	139	113	108	88	84	67½	73	59½	70½	47
Hutchinson, Kans. ...	Kansas City, Mo.....	220	73	66	64	58	58	50	49	41	43	25	38	24
	St. Louis, Mo.....	503	143	115	119	93	98	78	79	62½	68	52	63	39½
	Chicago, Ill.....	678	163	135	139	113	108	88	84	67½	73	59½	70½	47
Great Bend, Kans. ...	Kansas City, Mo.....	269	80	66	70	58	62	50	55	41	48	36	69½	54
	St. Louis, Mo.....	552	150	121	125	98	102	82	85	66	73	56	65	41½
	Chicago, Ill.....	727	170	141	145	118	112	92	90	71	78	61	72½	49
Kinsley, Kans.	Kansas City, Mo.....	304	88	78	78	71	70	63	63	55	55	48	46	31
	St. Louis, Mo.....	587	158	133	133	111	110	95	93	80	80	68	71	53
	Chicago, Ill.....	762	178	153	153	131	120	105	98	85	85	73	78½	60½
Dodge City, Kans. ...	Kansas City, Mo.....	341	92	87	82	78	74	71	67	60	62	55	49	36
	St. Louis, Mo.....	624	162	142	137	118	114	103	97	85	87	70	72	58
	Chicago, Ill.....	799	182	162	157	138	124	113	102	90	92	75	81½	65½
Garden City, Kans. ...	Kansas City, Mo.....	390	100	94	90	84	80	76	75	65	70	59	55	43
	St. Louis, Mo.....	673	170	149	145	124	120	108	105	90	95	70	80	65
	Chicago, Ill.....	848	190	169	165	144	130	118	110	95	100	75	87½	72½
Coolidge, Kans.	Kansas City, Mo.....	457	131	94	115	84	98	77	85	65	78	59	66	52
	St. Louis, Mo.....	740	201	149	170	124	138	109	115	90	103	70	91	74
	Chicago, Ill.....	915	221	169	190	144	148	119	120	95	108	75	98½	81½
Las Animas, Kans. ...	Kansas City, Mo.....	524	172	145	149	117	126	104	103	83	93	73	85	63
	St. Louis, Mo.....	807	242	180	204	135	166	112	133	90	118	70	110	85
	Chicago, Ill.....	982	262	200	224	155	176	122	138	95	123	75	117½	92½

San Antonio, N. Mex.	Kansas City, Mo.....	976	295	193	270	171	235	153	200	137	175	110	155	117	130	105	105	90	100	70	.....	60
	St. Louis, Mo	1, 259	365	212	325	194	275	182	230	162	200	130	180	139½	148	120	123	100	118	82½	.....	71
	Chicago, Ill	1, 434	385	232	345	210	285	194	235	167	205	135	187½	147	155½	128	128	107	123	87½	.....	76
Deming, N. Mex	Kansas City, Mo.....	1, 121	295	110	270	104	235	102	200	96	175	86	155	89	130	84	105	76	100	65	.....	57
	St. Louis, Mo	1, 404	365	129	325	127	275	124	230	116	200	99	180	100½	148	96½	123	86	118	74	.....	65
	Chicago, Ill	1, 579	385	149	345	143	285	136	235	121	205	104	187½	114	155½	104	128	91	123	79	.....	70
El Paso, Tex.....	Kansas City, Mo.....	1, 144	270	145	250	130	220	120	185	112	160	83	145	86	115	78	95	62	85	51	.....	44
	St. Louis, Mo	1, 427	315	145	290	130	250	120	210	112	185	83	165	86	135	78	110	62	100	51	.....	44
	Chicago, Ill	1, 602	335	165	310	146	260	132	215	122	190	90	172½	95	142½	86	115	69	105	57	.....	49

TABLE 176.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE DENVER AND RIO GRANDE RAILROAD FROM DENVER, COLO., TO STATIONS NAMED DURING 1887 AND 1893.

[Governed by Western classification.]

Dis- tance.	From Denver Colo., to—	Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.
<i>Miles.</i>																					
277	Leadville, Colo	140	125	125	115	115	105	100	95	85	80	80	75	70	65	50	60	45	40	45	40
456	Grand Junction, Colo....	260	200	245	175	225	140	195	109	165	105	130	105	125	90	82	77	72	50	72	50
502	Durango, Colo	265	185	245	170	230	145	200	120	170	105	130	105	125	75	85	65	75	55	75	55
547	Silverton, Colo	300	215	280	195	265	170	230	145	200	130	150	130	145	95	100	70	90	60	90	60

TABLE 177.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE ATLANTIC AND PACIFIC RAILROAD BETWEEN ALBUQUERQUE, N. MEX., AND STATIONS NAMED, DURING 1887 AND 1893.

[1887, Local classification; 1893, Western classification.]

Dis- tance.	From Albuquerque N. M., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
286	Winslow, Ariz.....	1887	195	177	153	138	123	115	90	80	.....	.....
		1893	157	143	127	106	93	88	63	49	47	44
344	Flagstaff, Ariz.....	1887	220	200	173	157	138	131	100	89	.....	.....
		1893	168	153	131	109	96	95	66	53	50	47
401	Ash Fork, Ariz.....	1887	242	219	189	168	147	141	107	97	.....	.....
		1893	175	159	136	112	98	100	72	58	53	49
575	The Needles, Cal	1887	312	277	241	201	172	169	126	112	.....	.....
		1893	205	182	157	127	106	114	86	70	63	58
735	Daggett, Cal.....	1887	338	302	262	221	191	187	138	124	.....	.....
		1893	258	237	181	149	123	130	104	84	74	73
744	Barstow, Cal.....	1887	340	303	263	222	192	188	139	125	.....	.....
		1893	260	240	182	150	124	130	105	85	75	74
815	Mojave, Cal.....	1887	352	312	272	232	201	195	144	130	.....	.....
		1893	294	254	190	155	130	140	120	95	85	80

TABLE 178.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE ATLANTIC AND PACIFIC RAILROAD BETWEEN MOJAVE, CAL., AND STATIONS NAMED, DURING 1887 AND 1893.

Dis- tance.	From Mojave, Cal., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
71	Barstow, Cal	1887	54	52	50	49	47	47	35	31	.....	.....
		1893	54	52	50	49	47	47	35	31	31	24
80	Daggett, Cal.....	1887	60	58	56	54	52	52	38	34	.....	.....
		1893	60	58	56	54	52	52	38	34	34	26
240	The Needles, Cal	1887	163	154	132	120	106	101	75	69	.....	.....
		1893	163	143	113	95	85	85	75	57	52	46
414	Ash Fork, Ariz.....	1887	255	230	199	173	151	146	107	96	.....	.....
		1893	210	180	151	113	102	107	92	77	65	53
471	Flagstaff, Ariz.....	1887	280	251	217	184	160	154	114	100	.....	.....
		1893	225	215	170	120	106	113	97	81	68	58
657	Gallup, N. Mex.....	1887	327	292	254	214	182	177	132	118	.....	.....
		1893	268	235	184	142	120	128	110	92	79	71
815	Albuquerque, N. Mex.....	1887	352	313	272	232	201	195	144	130	.....	.....
		1893	294	254	190	155	130	140	120	95	85	80

TABLE 179.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM GALVESTON, TEX., TO STATIONS NAMED, VIA INTERNATIONAL AND GREAT NORTHERN RAILROAD AND TEXAS AND PACIFIC RAILWAY DURING 1893 WITH THOSE IN EFFECT DURING 1887.

1887, Joint Texas classification; 1893, Western classification.

Dis- tance.	From Galveston, Tex., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
594	Sweetwater, Tex.....	1887	115	105	91	82	.....	65	59	51	42	30
		1893	110	102	88	76	60	66	57	48	38	29
613	Lorraine, Tex.....	1887	115	105	91	82	.....	65	59	51	42	30
		1893	110	102	88	76	60	66	57	48	38	29
660	Big Springs, Tex.....	1887	135	123	101	92	.....	75	69	56	46	35
		1893	135	120	110	97	77	79	72	56	45	37
720	Odessa, Tex.....	1887	167	153	131	122	.....	100	92	75	59	45
		1893	135	120	110	103	77	79	72	56	45	38
793	Pecos City, Tex.....	1887	197	180	156	133	.....	111	100	81	67	48
		1893	135	120	110	103	77	79	72	56	45	38
811	Toyah, Tex.....	1887	202	185	160	136	.....	113	102	84	70	51
		1893	135	120	110	103	77	79	72	56	45	38
832	San Martine, Tex.....	1887	206	189	163	139	.....	116	104	90	72	55
		1893	135	120	110	103	77	79	72	56	45	38
881	Van Horn, Tex.....	1887	219	199	173	149	.....	126	109	94	75	60
		1893	135	120	110	103	77	79	72	56	45	38
908	Arispe, Tex.....	1887	230	208	182	157	.....	133	113	94	75	62
		1893	135	120	110	103	77	79	72	56	45	38

TABLE 180.—COMPARISON OF FREIGHT RATES CHARGED BY THE TEXAS AND PACIFIC RAILWAY FROM NEW ORLEANS TO STATIONS NAMED, DURING 1887 AND 1893.

[1887, Joint Texas classification; 1893, Western classification.]

Dis- tance.	From New Orleans, La., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
562	Iona, Tex.....	1887	128	112	96	85	.....	71	64	59	49	44
		1893	123	107	92	83	66	69	61	51	40	33
565	Aledo, Tex.....	1887	128	112	96	85	.....	71	64	59	49	44
		1893	123	107	92	83	66	69	61	51	40	33
578	Weatherford, Tex.....	1887	130	114	98	87	.....	72	65	60	50	45
		1893	123	107	92	83	66	69	61	51	40	33
602	Brazos, Tex.....	1887	140	124	108	92	.....	77	70	65	55	47
		1893	123	107	92	83	66	69	61	51	40	33
628	Strawn, Tex.....	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
662	Cisco, Tex.....	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
682	Vigo, Texas.....	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
708	Abilene, Tex.....	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
749	Sweetwater, Tex.....	1887	175	153	133	112	.....	92	85	80	65	49
		1893	135	119	102	87	70	76	67	61	50	40
767	Lorraine, Tex.....	1887	183	158	137	116	.....	96	89	82	67	50
		1893	135	119	102	87	70	76	67	61	50	40
816	Big Springs, Tex.....	1887	200	174	148	127	.....	107	100	88	71	55
		1893	160	137	123	108	85	88	82	69	57	48
837	Marionfeld, Tex.....	1887	210	184	158	137	.....	117	105	90	73	58
		1893	160	137	123	112	85	88	82	69	57	49
876	Odessa, Tex.....	1887	226	200	174	146	.....	126	112	94	77	62
		1893	160	137	123	112	85	88	82	69	57	49
948	Pecos City, Tex.....	1887	250	224	193	162	.....	142	125	100	85	65
		1893	160	137	123	112	85	88	82	69	57	49
968	Toyah, Tex.....	1887	255	229	198	167	.....	147	130	103	88	68
		1893	160	137	123	112	85	88	82	69	57	49
988	San Martine, Tex.....	1887	260	239	206	175	.....	153	136	109	93	72
		1893	160	137	123	112	85	88	82	69	57	49
1,042	Van Horn, Tex.....	1887	260	240	215	180	.....	158	143	113	93	79
		1893	160	137	123	112	85	88	82	69	57	49
1,066	Arispe, Tex.....	1887	265	245	215	180	.....	158	143	113	93	82
		1893	160	137	123	112	85	88	82	69	57	49

TABLE 181.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BETWEEN NEW ORLEANS AND STATIONS NAMED, BY THE SOUTHERN PACIFIC COMPANY DURING 1887 AND 1893.

[Subject to Western classification.]

Dis- tance.	Between New Orleans, La., and—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
<i>Miles.</i>												
1,217	Rogers, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	139	124	113	105	79	82	76	63	51	43
1,239	Lanark, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	155	140	129	121	93	96	87	72	60	52
1,274	Cambray, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	182	165	152	143	116	119	103	87	75	62
1,300	Deming, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	202	184	171	151	120	130½	114	94	75	64
1,360	Lordsburg, N. Mex	1887	304	278	242	205	179	158	126	100	90	90
		1893	228	205	185	169	144	150	124	102	90	81
1,394	San Simon, Ariz	1887	313	286	249	211	183	162	130	103	92	92
		1893	254	229	209	192	164	161	128	105	92	92
1,434	Willcox, Ariz	1887	322	295	256	217	189	167	134	106	95	95
		1893	282	257	235	196	174	166	132	108	95	95
1,474	Benson, Ariz	1887	332	304	264	224	195	173	138	110	98	98
		1893	312	283	250	196	174	172	136	112	98	98
1,491	Pantano, Ariz	1887	336	308	268	227	197	175	140	111	100	100
		1893	325	283	250	196	174	174	138	113	100	99
1,519	Tucson, Ariz	1887	343	314	273	231	202	179	143	114	102	102
		1893	325	283	250	196	174	175	141	116	102	99
1,585	Casa Grande, Ariz	1887	359	329	286	242	211	187	149	119	107	107
		1893	325	283	250	196	174	175	147	121	107	99
1,611	Maricopa, Ariz	1887	365	335	291	247	215	190	152	121	109	109
		1893	325	283	250	196	174	175	150	124	109	99

TABLE 182.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE KANSAS CITY, FORT SCOTT AND MEMPHIS RAILROAD BETWEEN MEMPHIS, TENN., AND STATIONS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

Dis- tance.	Between Memphis, Tenn., and—	Year.	Classes (rates in cents per 100 pounds).													
			1.	2.	3.	4.	5.	6.	A.	B.	C.	D.	E.	Packing house products.	Wheat.	Corn.
<i>Miles.</i>																
66	Jonesboro, Ark	1886	55	45	35	30	25	25	20	15	12	12	....	....	....	....
		1893	51	44	34	27	22	....	21	17	13	10	6	10	10	10
172	West Plains, Mo	1886	70	60	50	40	35	35	30	25	20	20	....	....	....	....
		1893	70	60	50	40	30	....	30	24	20	16	11	25	16	15
285	Springfield, Mo	1886	80	70	60	45	40	40	31	26	22	22	....	....	....	....
		1893	70	60	50	40	30	....	30	25	20	17	14	25	16	16
348	Lamar, Mo	1886	100	80	60	45	40	40	37	32	25	25	....	....	....	....
		1893	85	65	50	40	30	....	33	28	22	18	17	25	22	20
388	Fort Scott, Kans	1886	100	80	60	45	40	40	40	35	27	27	....	....	....	....
		1893	85	65	50	40	30	....	33	28	22	18	17	25	22	20
444	Paola, Kans	1886	105	85	65	55	45	45	45	40	27	27	....	....	....	....
		1893	85	65	50	40	30	....	33	28	22	18	17	25	22	20

TABLE 183.—COMPARISON OF RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED FREIGHT FROM ST. LOUIS TO POINTS NAMED BY THE MISSOURI PACIFIC RAILWAY DURING 1883 AND 1893.

[Governed by Western classification.]

Distance.	From St. Louis, Mo., to—	1883. 1893.	Classes (rates in cents per 100 pounds).															
			1. 1.	2. 2.	3. 3.	4. 4.	5. 5.	6. A.	A. B.	B. C.	C. D.	D. E.	Wheat, carloads.	Corn. carloads.	Horses and mules.	Cattle.	Hogs.	Sheep.
Miles.																		
188	Sedalia, Mo ...	1883.	70	55	40	27	25	20	25	22	18	18	18	15	*\$37.00	*\$35.00	*\$30.00	*\$28.00
		1893.	50	40	29	22	17	19½	16	13½	11	10	14	11½	*39.00	13¾	15	15½
283	Kansas C'y, Mo	1883.	70	55	40	27	23	...	25	22	18	18	...	...	...	...	...	...
		1893.	55	40	32	25	20	22½	17½	15	12½	11	18	14	*50.00	20	15	21½
463	Wichita, Kans	1883.	152	127	102	78	68	65	65	49	41	41	41	29	*75.00	*70.00	*67.50	*60.00
		1893.	115	93	78	62½	53	52	39½	33	27	22	25	20	*65.00	28¾	35	34
485	Concordia, Ks.	1883.	125	105	85	65	63	60	51½	43	33	33	36.4	27.2	*82.00	*75.00	*61.50	*54.50
		1893.	106	85½	70	55	46	47½	35½	30½	23½	18½	23	18	*60.00	27¼	32	32½
414	Auburn, Nebr	1883.	86	67	50	36	31	28	34½	29	24	24	....	....	*67.50	*57.50	*62.00	*45.00
		1893.	55	40	32	25	20	22½	17½	15	12½	11	14	14	*50.00	20	20	22¼

* Per car.

TABLE 184.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LOUISVILLE AND NASHVILLE RAILROAD FROM CINCINNATI TO STATIONS NAMED UPON CLASSES 1, 2, 3, AND 4, AND ALSO UPON FLOUR AND BACON DURING 1886 AND 1893.

[1886 Local classification. 1893 Southern Railway and Steamship Association classification.]

Dis- tance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).								Rates in cents per barrel.				Rates in cents per 100 pounds.	
		1.		2.		3.		4.		Flour, less than car loads.		Flour, car loads		Bacon, any quan- tity.	
		1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893
<i>Miles.</i>															
1	Newport, Ky	5	5	5	5	5	5	5	5	8	6	6	6	5	5
5	Milldale, Ky	9	9	8	8	7	7	6	6	10	8	8	8	6	6
17	Bank Lick, Ky	12	12	11	11	10	10	8	8	14	12	12	12	8	8
40	Glencoe, Ky	25	29	20	25	18	22	15	19	24	22	20	22	15	17
52	Eagle, Ky	30	32	26	27	24	24	20	21	32	24	26	24	20	19
56	Worthville, Ky	30	24	26	20	24	19	20	18	32	24	26	24	20	16
69	Campbellsburg, Ky	35	37	30	32	25	28	22	25	36	28	30	28	22	22
77	Pendleton, Ky	35	41	30	35	25	31	22	28	36	32	30	32	22	24
83	La Grange, Ky	40	41	35	35	30	31	25	28	40	32	34	32	25	24
98	Anchorage, Ky	40	38	35	33	30	29	25	26	40	30	34	30	25	22
106	Crescent Hill, Ky	40	35	35	30	30	26	25	23	40	28	34	28	25	19
110	Louisville, Ky	...	25	...	20	...	15	...	10	...	10	...	8	...	...
116	Strawberry, Ky	37	35	30	30	24	26	17	23	28	28	26	28	17	19
123	Brooks, Ky	40	38	33	33	27	29	19	26	32	30	30	30	19	22
135	Belmont, Ky	47	46	39	40	31	34	23	30	40	36	38	36	23	26
144	Colesburg, Ky	55	52	45	45	36	39	28	34	48	40	44	40	28	30
149	Tunnel Hill, Ky	57	55	48	47	40	41	30	36	50	42	46	42	30	32
152	Elizabethtown, Ky	57	55	48	46	40	37	30	30	50	38	46	32	30	18
160	Glendale, Ky	60	58	50	50	42	44	31	38	52	44	48	44	31	34
183	Munfordville, Ky	72	70	61	61	51	53	37	47	62	48	58	48	37	40
191	Horse Cave, Ky	72	72	63	62	52	54	38	48	62	48	58	48	38	40
200	Glasgow Junction, Ky	74	74	64	64	55	55	40	50	64	50	60	50	40	41
210	Smiths Grove, Ky	76	76	65	65	56	56	40	51	66	50	62	50	40	42
219	Bristow, Ky	78	78	65	67	57	57	40	52	66	52	62	52	40	43
224	Bowling Green, Ky	80	78	65	67	57	58	40	52	66	52	62	52	40	43
232	Rich Pond, Ky	80	78	65	67	57	58	40	52	66	52	62	52	40	43
269	Gallatin, Tenn	80	78	65	67	57	58	40	48	66	52	62	52	40	38
274	Pilot Knob, Tenn	80	76	65	67	57	56	40	46	66	52	62	52	40	36
280	Hendersonville, Tenn	80	68	65	61	57	51	40	42	66	46	62	46	40	32
290	Maplewood, Tenn	80	65	65	58	57	48	40	39	66	44	62	44	40	29
295	Nashville, Tenn	53	53	48	48	39	39	31	31	35	34	35	34	27	23
306	Brentwood, Tenn	72	65	58	58	48	48	36	39	58	44	56	44	36	29
315	Franklin, Tenn	80	67	64	61	53	51	40	42	66	48	64	48	40	32

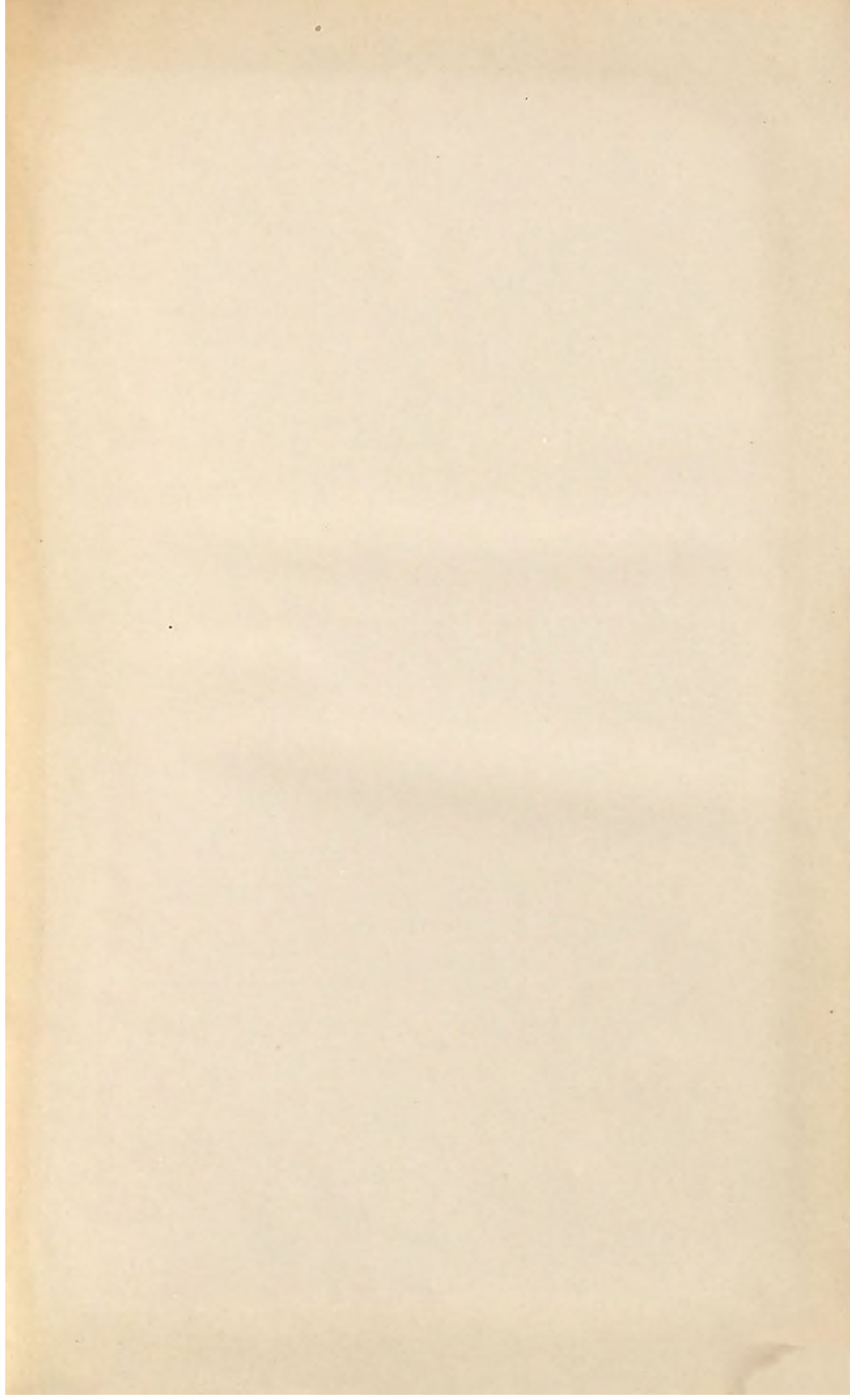
TABLE 184.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LOUISVILLE AND NASHVILLE RAILROAD, ETC.—Continued.

Dis- tance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).								Rates in cents per barrel.				Rates in cents per 100 pounds.	
		1.		2.		3.		4.		Flour, less than car-loads.		Flour, car-loads.		Bacon, any quantity.	
		1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893
<i>Miles.</i>															
342	Columbia, Tenn	97	78	80	68	68	57	50	48	84	58	76	58	40	38
382	Aspen Hill, Tenn	106	99	88	83	70	65	56	60	90	60	84	60	56	45
395	Elkmont, Ala	106	99	88	83	70	65	56	60	90	60	84	60	56	37
414	Harris, Ala	106	97	88	82	70	65	56	60	90	53	84	53	56	30
417	Decatur, Ala	92	85	80	72	72	65	58	54	72	43	72	43	44	24
440	Wilhite, Ala	118	106	95	87	76	68	62	63	96	61	90	61	62	37
470	Blount Springs, Ala	125	108	100	88	80	69	65	64	100	66	100	66	65	47
480	Warrior, Ala	125	108	100	88	80	69	65	64	100	62	100	62	65	46
504	Birmingham, Ala	108	89	102	79	88	68	71	55	56	40	56	40	33	33
510	Oxmoor, Ala	117	89	105	79	85	68	70	55	110	40	106	40	70	33
521	Helena, Ala	125	109	110	90	85	70	70	65	110	58	106	58	70	44
537	Calera, Ala	108	110	102	90	88	70	71	65	56	68	56	68	40	49
548	Jemison, Ala	135	110	110	90	85	70	70	65	110	70	106	70	70	54
568	Verbena, Ala	138	113	120	92	90	72	75	67	116	66	116	66	75	50
588	Elmore, Ala	123	113	115	92	90	72	75	67	116	56	116	56	75	42
600	Montgomery, Ala	108	108	102	102	88	88	71	71	56	40	56	40	33	33
616	Morganville, Ala	128	113	118	102	90	88	75	71	120	58	120	58	75	44
633	Fort Deposit, Ala	138	113	120	102	90	88	75	71	120	66	120	66	75	50
681	Evergreen, Ala	155	116	130	102	100	88	85	71	130	82	130	82	85	57
719	Flomaton, Ala	160	120	135	102	105	88	85	71	134	83	132	83	85	52
755	Bay Minnette, Ala	160	120	135	102	105	88	85	71	134	69	132	69	85	42
775	Magazine Point, Ala	160	110	135	93	105	82	85	62	134	59	132	59	85	33
780	Mobile, Ala	83	98	73	83	63	73	44	54	56	49	56	49	31	27
820	Scranton, Miss	165	124	140	106	110	88	91	71	138	69	138	69	91	42
841	Biloxi, Miss	165	124	140	106	110	88	91	71	138	69	138	69	91	42
862	Pass Christian, Miss	165	124	140	106	110	88	91	71	138	69	138	69	91	42
901	Chef Menteur, Miss	170	118	145	100	115	88	94	67	142	63	142	63	94	38
912	Lee, Miss	170	110	145	93	115	82	94	62	142	59	142	59	94	33
921	New Orleans, La	83	98	73	83	63	73	44	54	44	49	44	49	26	27

TABLE 185.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE SAVANNAH, FLORIDA AND WESTERN RAILWAY BETWEEN SAVANNAH AND STATIONS NAMED DURING 1886 AND 1893.

[Subject to Southern Railway and Steamship Association classification.]

Dis- tance.	From Savannah, Ga., to—	Classes (rates in cents per 100 pounds).																Rates in cents per barrel.									
		1.		2.		3.		4.		5.		6.		A.		B.		C.		D.		E.		H.		F.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.		59	45	53	41	46	35	41	32	31	24	24	19	24	19	17	19	11	11	10	10	31	24	40	32	21½	21½
86	Blackshear, Ga.....	70	59	60	57	53	45	43	36	34	29	27	23	27	23	21	23	12½	12½	12	12	34	29	43	36	25½	25½
122	Homerville, Ga.....	70	63	60	53	53	47	43	37	34	30	27	24	27	24	21	24	12½	13	12	12½	34	30	43	37	25½	26½
130	Dupont, Ga	80	70	67	59	59	52	46	41	38	33	31	28	31	28	25	28	15½	15½	14½	14½	38	33	46	41	31	31
166	Ousley, Ga	83	73	70	62	60	53	48	42	39	34	33	29	33	29	26	29	15½	15½	14½	14½	39	34	48	42	31	31
210	Quitman, Ga	85	75	73	64	61	54	49	43	39	35	34	30	34	30	27	30	16½	16½	15½	15½	39	35	49	43	33	33
224	Boston, Ga	85	78	74	68	61	56	49	45	39	36	34	31	34	31	27	31	16½	17	15½	16	39	36	49	45	33	33½
236	Thomasville, Ga.....	90	83	84	77	66	61	54	50	42	39	36	33	36	33	30	33	19	19	18	18	42	39	54	50	38	38
279	Faceville, Ga	75	75	60	60	50	50	45	45	40	39	35	33	20	20	30	30	20	19	18	18	40	39	45	45	40	38
294	Chattahoochee, Fla																										



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